





Air War College

AIR WAR COLLEGE CLASS OF 1981
RETENTION SURVEY

RESEARCH REPORT

CE NOV 9 1981

No. MS108-81By Robert E. Lee, Jr.

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AIR UNIVERSITY (ATC)
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AIR WAR COLLEGE AIR UNIVERSITY REPORT NO. MS1/8-81

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AIR WAR COLLEGE CLASS OF 1981 RETENTION SURVEY, 13)222/

Robert E./Lee, Jr./Lieutenant Colonel, USAF

A RESEARCH REPORT, SUBMITTED TO THE FACULTY
IN

FULFILLMENT OF THE RESEARCH REQUIREMENTS

MAXWELL AIR FORCE BASE, ALABAMA

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SECURITY CLASSIFICATION OF THIS P	AGE (When Data Entered)

REPORT DOCUMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER 2. GOVT ACCESSION NO	<u> </u>
MS108-81 A 107	11/3
4. TITLE (and Subtitle)	S. TYPE OF REPORT & PERIOD COVERED
	Research Report
Air War College Class of 1981 Retention	Research Report
Survey	6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(e)	8. CONTRACT OR GRANT NUMBER(*)
LTC Robert E. Lee, Jr., USAF	Ì
9. PERFORMING ORGANIZATION NAME AND ADDRESS AWC/EDRM	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
Maxwell AFB AL 36112	
Marwell ald ad Joil2	1
11. CONTROLLING OFFICE NAME AND ADDRESS	12. REPORT DATE
Commandant	April 1981
Air War College	13. NUMBER OF PAGES
Maxwell AFB AL 36112	221
14. MONITORING AGENCY NAME & ADDRESS(II different from Controlling Office)	15. SECURITY CLASS. (of this report)
	Inter
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	15a. DECLASSIFICATION DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report)	<u> </u>
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AIR WAR COLLEGE RESEARCH REPORT SUMMARY NO. MS108-81

TITLE: Air War College Class of 1981 Retention Survey

AUTHOR: Robert E. Lee, Jr., Lieutenant Colonel, USAF

This study reports the results of a retention survey administered by the author to the active-duty Air Force members of the Air War College class of 1981. The purposes of the survey were to assess the career and retention attitudes of the class of 1981, determine the factors shaping those attitudes, and compare the results obtained with those from a similar survey administered to the Air War College class of 1980. The 1981 survey focused on various factors which affect retention, including financial matters, family considerations, leadership, and social life/camaraderie. It also sought to determine the career intentions of the class of 1981. The results of the 1981 survey were in many respects better from an organizational viewpoint than were the results of the 1980 survey. The analysis of the results also revealed that the retention outlook among high-quality senior officers is positive and healthy.

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BIOGRAPHICAL SKETCH

Lieutenant Colonel Robert E. Lee, Jr., (M.B.A., American University) has served in several key personnel positions since his commissioning in 1963. These include Consolidated Base Personnel Office (CBPO) Chief; officer assignments in Head-quarters Air Training Command; executive officer to the Assistant for Colonel Assignments in the Deputy Chief of Staff/Manpower and Personnel in the Pentagon; and, most recently, as chief, Personnel Evaluation Divison, Air Force Manpower and Personnel Center, where he managed the Air Force officer effectiveness report (OER) and airman performance report (APR) systems. Lieutenant Colonel Lee is a graduate of the Air War College, class of 1981.

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CHAPTER I

INTRODUCTION

In January, 1980, Lieutenant Colonel Kenneth A. Anderson, USAF, a member of the Air War College (AWC) class of 1980, developed a retention survey and administered it to his activeduty Air Force classmates. According to Anderson, the purposes of the survey were "to determine the severity of the retention problem and help identify causes." (1:1)

The survey results provided a wealth of data for analysis, and some of the information was, as Anderson termed it, "rather dramatic." (1:2) Major findings included but were not limited to the following:

Inadequate pay, family related considerations and eroding benefits are the most negative factors in making the Air Force a career.

Over 90 percent of the class feel that retention is a very serious problem for the Air Force.

Over two-thirds of the class feel that Air Force senior leadership is not taking positive and effective actions to improve the quality of life in the Air Force.

There is a clear trend toward shorter careers within the class.

There are excellent motivational factors for making the Air Force a career-job challenge and satisfaction, service to the country and association with great people. These motivators are losing effect, however, since basic needs are being challenged because of inadequate pay and benefits. In addition, social changes dictate recognition of family needs. Instability, disruptions and separations must be reduced. (1:2-4)

Acknowledging that the survey results were not encouraging, Anderson concluded that:

Retention problems within any specialized group cause concern. Significant losses of highly experienced and

promotable senior officers are unacceptable if the Air Force is to support effectively national goals and objectives. No organization with a closed personnel system can continue as a viable institution under those circumstances. If personnel selected and trained to assume senior leadership positions do not remain within the organization, that loss is irreplaceable. The concerns, attitudes and intentions expressed by the Air War College class of 1980 offer a sobering analysis of where the Air Force stands as an institution today. (1:34-35)

Sobering, indeed! By any reasonable measure, the typical Air War College class is an aggregate of the Air Force's finest lieutenant colonels and colonels—the vanguard of the Air Force leadership for the decade following graduation. And as Anderson noted, it was "reasonable to extrapolate the survey data as representative of the top 10 percent of lieutenant colonels in the Air Force" (1:31)—a group numbering approximately 1600 compared to the 139 Air Force members of the class of 1980.

Obviously, in January 1980 the retention outlook for the best Air Force officers at the mid-senior level was less than optimistic.

In his report Anderson recommended that the same survey be administered to subsequent AWC classes. (1:32) The AWC faculty agreed with that recommendation and decided that an annual retention survey of AWC students should be conducted as a part of student research. This study accomplishes that task for the AWC class of 1981.

The 1981 survey retained Anderson's basic framework of questions and included some new ones designed to accommodate the following factors:

- 1. The need to investigate more thoroughly the 1980 findings regarding pay and benefits
- 2. The 11.7 percent pay increase which was effective on 1 October 1980
- 3. The 1980 presidential election
- 4. The introduction of a sixth analytical category-social life/camaraderie

The net effect of the changes to the survey instrument was to increase the number of questions from 53 to 75. The added depth provided additional information regarding several factors considered key to a healthy retention climate. Moreover, the results of the 1981 survey were in many respects better from an organizational viewpoint than those from the 1980 survey. These 1981 results are summarized below.

- 1. According to the class of 1981, the three most positive aspects of an Air Force career are the job (principally job satisfaction), the people in the Air Force, and service to the nation
- 2. Financial compensation is still the most significant concern for this group. There was a slight improvement in attitude toward pay compared with 1980, but much ground needs to be covered before an adequate pay level is reached
- 3. There is a very high, positive relationship between longer careers and families who are satisfied with the Air Force way of life
- 4. A social/camaraderie category was added this year.

 The answer to the questions it contained indicated that negative

trends in the social/camaraderie aspects of Air Force life are contributing to the Air Force's retention difficulties. Concern in this area was most frequently expressed by rated officers who have spent most of their careers in flying jobs where mission, unit cohesiveness, and a strong social tradition provide a great deal of individual satisfaction, esprit and camaraderie

- 5. The most positive changes from 1980 to 1981 were the improved opinions about Air Force leadership. The animosity present in 1980 diminished significantly. The only major dissatisfaction remaining in this category among the class of 1981 is the strong perception that there is too much micromanagement in the Air Force
- 6. The 1981 class is acutely aware of the Air Force's retention problems, and they reported considerable difficulty in motivating NCOs and young officers toward making the Air Force a career. The class also agreed that there was a senior officer retention problem, but they were unwilling to sacrifice healthy promotion flow in order to fix it
- 7. The career intentions of the class of 1981 are positive and healthy. This observation results from additional data used for comparative purposes as well as to a difference in viewpoints between analysts (last year's and this year's)
- 8. Finally, retention was the single most important issue facing the Air Force today, according to the class of 1981

The 1981 survey annotated with the response percentages for both the 1980 and 1981 classes is provided at appendix A. The remainder of this study will focus on a detailed analysis of the survey results.

CHAPTER II

THE SURVEY

Purpose of the Survey

The purposes of the 1981 survey were to assess the career and retention attitudes of the Air Force members of the AWC class of 1981, determine the factors shaping those attitudes, and compare the results obtained with those reported in the Anderson study.

Hypothesis

Anderson's hypothesis was that "current retention problems are symptoms of much more serious institutional problems
in the Air Force." (1:5) While this may be correct, it seems
to be beyond the capability of a survey of Air Force AWC students
to prove or disprove such an hypothesis.* At best, the most
reasonable generalization which could have been reached from
the 1986 survey was that the career attitudes of the Air Force
members of the AWC class of 1980 were quite similar to those of
a group of officers of like rank and quality. This is precisely
what Anderson concluded—that the survey was representative
enly of the top 10 percent of lieutenant colonels and colonels
in the Air Force. (1:31)

^{*}Anderson acknowledged this limitation by stating that his "sample was small and not representative of all Air Force officers or all Air Force colonels and lieutenant colonels." (1:1)

The purpose of this discussion is to narrow the focus of the retention survey to an assessment of how the Air Force's best lieutenant colonels and colonels feel about their careers--nothing more, nothing less. This attempt at a more precise focus is based on the premise that the knowledge gained from the 1980, 1981, and subsequent surveys will aid in rounding out what the Air Force needs to know about the root causes of dissatisfaction--as well as satisfaction--regarding an Air Force career.

In summary, the most appropriate hypothesis to be derived from the 1981 survey would seem to involve some prediction of change utilizing the 1980 results as a baseline. Therefore, the statistical null hypothesis is that there is no difference between the two groups. Rejection of the statistical hypothesis supports the thesis that the class of 1981 has a much more positive outlook than did the class of 1980.

Survey Methodology

The 1981 survey is basically the same as the 1980 version. It consists of seven categories of questions: demographics, financial considerations, family considerations, social life/camaraderie, leadership, retention, career intentions, and miscellaneous. The 1981 version totals 75 questions, an increase of 22 questions from the previous year. Many of the new questions were included to probe more deeply into the finding that pay was the most serious concern of the AWC class of 1980.

The following Likert-type response scale was used for most questions: strongly agree, agree, disagree, strongly disagree. Note that it does not include a neutral, mid-point response. Anderson's reasoning for this format was that it "provided a common ground of comparison and correlation and forced a choice by each respondent." (1:6) This format was continued in the current survey for consistency purposes.

A total of 144 copies of the 1981 survey were distributed, and 140 (97.2 percent) were returned by the end of the two-week completion period. This compares favorably with the 1980 return rate of 87.8 percent (122 of 139).

The 1980 and 1981 surveys were distributed in January of the academic year. Anderson described this period as one where the mood of his fellow students was at a mid-to-high point. This assessment is also valid for the class of 1981.

Analytical Methodology

With the exception of the last four questions, which required fill-in-the-blank answers, respondents answered the survey on machine-scannable answer sheets to facilitate scoring of the results. Frequency-response-distribution percentages were computed for each question, with adjustments being made for instances in which no answer was marked and respondents who were single or had no children were instructed not to answer certain questions. Thus, only valid answers were used in calculating the distribution percentages. For some unexplainable

reason, this procedure was not used for the 1980 survey; rather, the distribution percentages were apparently calculated on the basis of the number of total respondents rather than the number of valid answers.* This error necessitated the recalculation of the 1980 response distribution percentages so that valid t-tests could be conducted on each question which appeared in both the 1980 and 1981 surveys. In almost every case these recalculations resulted in only slight adjustments to the response percentages, usually less than .1 or .2 percent. All 1908 percentages which appear in this paper are recalculations. Statistical Tests**

The Statistical Package for the Social Sciences (SPSS) computer program was used for all statistical analyses. Two SPSS subprograms were selected, t-test and crosstabs. The t-test determines whether or not a difference between two samples indicates a difference in the populations from which, those samples are drawn. In this survey analysis the samples are the Air Force officers in the Air War College classes of 1908 and 1981, and the underlying populations are the top 10 percent of colonels and lieutenant colonels throughout the Air Force for those two years. Each classes' responses to each survey question are compared, and the t-test estimates the

^{*}Computer personnel believe this may have been caused by an inconsistency in response coding procedures which Anderson was not aware of.

^{**}Individuals without a background in statistical analysis should read this portion carefully.

probability that any differences are due solely to chance. The probability estimates are formed by hypothesizing that there will be no difference of opinion between the two classes and then proceeding to prove or disprove the hypothesis on a question-by-question basis. When a large difference of opinion is found on a particular question, the difference is termed "significant,"* and the hypothesis (that there is no difference) is rejected. The conclusion can therefore be made that there is a difference of opinion between the underlying populations.

There is always the possibility of making errors in this type of statistical testing. One such error (Type I error) is to decide that a difference of opinion exists in the two populations when, in reality, it does not. The key to successful analysis is to reduce the risk of making this error by specifying at the beginning of the test the maximum acceptable risk of error which can be tolerated. This is generally referred to as the "level of significance."

The level of significance (acceptable risk of a Type I error) normally depends on how serious the consequences would be if an error were made. If the consequences were extremely serious, the significance level would probably be specified at .01, i.e., no more than a 1 percent chance of error. On the other hand, less serious consequences might result in a significance level

^{*}Significant, in its statistical sense, does not mean "important." Rather it signifies that a true difference exists between the samples.

of .05--as much as a 5 percent chance of an error is acceptable. These risk statements can also be expressed as confidence levels, i.e., a 99 or 95 percent confidence that the right decision was made in rejecting the hypothesis.

A second kind of error (Type II error) occurred when one accepts a false hypothesis. For example, a difference may exist between two groups but the statistical test does not indicate such a difference. An analysis of the probability of Type II errors is beyond the scope of this report.

The t-test significance level for this study was established at the .05 level, a level considered customary for statistical testing. To again emphasize, when a difference of opinion between the two classes is termed statistically "significant," it only means that we can be 95 percent confident that the same difference of opinion exists between the basic populations.

Of the 42 questions common to both surveys, 15 indicated statistical significance at the .05 level as a result of the SPSS t-test. Therefore, we can be 95 percent confident that in these 15 instances the opinions of the 1981 population differed mardedly from the opinions held by the 1980 population. For the other 27 questions common to both surveys, we had less than a 95 percent confidence that the opinions of the two populations reflected "true" differences. Appendix B contains the result of the SPSS t-tests to assist in making this decision. The column labeled "2-tail Prob." under the heading "Separate Variance Estimate" reflects the calculated level of significance (probability of error) for each question common to both surveys.

The SPSS Crosstabs subprogram examines the relation—ship between two independent variables, such as the response distributions of any two questions which appeared in the 1981 survey. The principal statistic in the Crosstabs subprogram is chi-square, a test of statistical significance which determines the probability that a systematic (dependent) relationship exists between two variables (question responses).

The procedure begins with an hypothesis that the two sample variables (questions) being compared are independent. The chi-square equation then computes the differences between the theoretical distributions which would be expected if the variables were independent and the distributions which actually appeared in the sample. If the total difference is large, then a systematic relationship probably exists and the hypothesis can be rejected.

Like the t-test, chi-square utilizes levels of significance to minimize the risk of concluding that the relationship is systematic when in fact it is not. Generally, the chi-square significance level is set at .05. When chi-square indicates that a relationship between two sample variables is statistically "significant" at the .05 level, this means that we can be at least 95 percent confident that the variables (question responses) are related to one another in some fashion.

While a chi-square test helps determine dependency between two variables, it is incapable of describing how strong the dependency might be. A description of strength is important because while there may be high confidence that the variables are dependent, the relationship in the sample may be very weak. The reverse is also possible. The sample relationship may be strong, but there is less than 95 percent confidence that the variables are truly dependent.

This latter point is important to the analysis of the 1981 survey. There are a few instances in which a strong relationship is indicated between two sample variables (questions), but chi-square provides less than 95 percent confidence that the variables are dependent. Given the unique nature of this survey, it seems inappropriate to exclude these few cases from the analysis; therefore, they will be utilized to offer added insight.

The SPSS Crosstabs subprogram offers a number of statistics which describe strength of relationship; the choice depends on whether the variables are measured at the nominal or ordinal level. Since a Likert response scale is considered to be at least ordinal, Crosstabs statistics which can be employed are tau (b or c), gamma, and Sommers D. Gamma was selected for use in this analysis. The possible values of gamma range linearly from -1 to +1 with 0 indicating no strength in the relationship.* A positive sign indicates, for example, that respondents who marked a particular response on

^{*}According to an example in the SPSS text, a .34 (+ or -) represented a fairly strong relationship. (7:228)

one question tended to mark the same answer on the other question (A-A, D-D, etc.). On the other hand, a negative sign indicates that respondents who marked a particular response on one question tended to mark an opposing answer on the other question (A-D, D-A, etc.).

Statistical Highlights

The following summary highlights some of the results of the chi-square and gamma statistics from the 1981 survey:

- 1. Six demographic factors* were crosstabulated with 48 other survey questions for a total of 348 demographic crosstabs
 - a. 37 (10.6%) were statistically significant at the .05 level
 - b. An additional 22 (6.3%) would have been statistically significant if the .10 level had been established as the cutoff point
 - c. 27 (7.8%) had a gamma value in the ranges -1 to -.30 or +.30 to +1, considered fairly strong to strong relationships
- 2. Thirty question-to-question (non-demographic) crosstabulations were conducted to test for suspected relationships or response consistency
 - a. 24 were statistically significant at the .05 level
 - b. 2 others would have been statistically signific ant if the .10 level had been established as the cutoff point
 - c. 22 had a gamma value in the ranges -1 to -.30 or +.30 to +1 and were thus considered to have fairly strong to strong relationships

^{*}Question 176, Date of Rank, was not crosstabulated.

Other Questions

The last four questions in the 1981 survey were fill-inthe-blank. One question asked respondents to estimate the quantity of a pay raise necessary to retain senior officers till they near mandatory retirement. Two questions asked each respondent to list the three most positive and negative factors in an Air Force career, and the last question asked what was the most significant problem facing the Air Force. The pay-raise data was manually compiled, and mean, median, and mode were computed. The responses on the positive and negative factors and the most significant problem were manually extracted and grouped according to topic. There were 18 positive topics, 21 negative topics, and six significant problem topics. Final rank ordering of the positive and negative topics was accomplished by awarding points based on order of placement on each individual survey. A number one factor received three points; a number two factor, two points; and a number three factor, one point. responses to these four questions are examined in considerably greater detail in Chapters VII and IX.

Review of Chapter Analyses

The 75 questions in the 1981 survey have been grouped into seven categories for analytical purposes. These categories are:

- 1. Financial Considerations
- 2. Family Considerations
- 3. Social Life/Camaraderie
- 4. Leadership
- 5. Retention
- 6. Career Intentions
- 7. Miscellaneous Questions

The response distributions to each question have been combined into positive and negative percentages to facilitate analysis. The positive percentage represents a combination of the strongly agree and agree percentages, and the negative percentage represents a combination of the two disagree responses. The response distributions from 1981 are compared to the response distributions from 1980, and statistically significant relationships are highlighted. Statistical relationships among 1981 questions are then discussed. The primary purpose is to analyze fully each category separately. The following terms will be used for the demographic crosstabulations:

- Grade: colonel, lieutenant colonel, etc. (In the crosstabs printouts, Response A includes colonels and colonel selectees; Response C indicates lieutenant colonels.)
- 2. Age (self-explanatory)
- 3. Time in Service: used in lieu of "Years of Service for Retirement," which appears in the crosstabs printout
- 4. PLSD: used in lieu of "Commissioning Year," which appears in crosstabs printout. (PLSD means Promotion List Service Date and for this group means essentially the same as commissioning year.)
- 5. Aeronautical Rating (self-explanatory)
- 6. Source of Commission (self-explanatory)

Before evaluation of the first category, a warning is necessary. In studying surveys of this nature, one has a natural tendency to spend more time looking at what is wrong rather than what is right. This problem is further compounded because respondents frequently recognize the potential power of the survey results and bias their responses in favor of a particular outcome. The reader should keep this fact in mind when considering the results of the 1981 survey and, for that matter, the 1980 survey, too. In both cases it is probably reasonable to assume that the attitudes of both groups are slightly more positive across the board, than they appear in the survey results.

CHAPTER III

FINANCIAL CONSIDERATIONS

Response Analysis

Let's face it-money talks! It talks because of what it can do for us within our social parameters. And it is naive for anyone to believe money talks less to military men and women than it does to civilians. It manifests free enterprise! I say it is not wrong for those dedicated to defend our country and all that it offers to expect a fair share of the profits according to demonstrated ability, initiative and degree/level of responsibility. (11:2)

Air Force colonel selectee to the Assistant for Colonel Assignments, eloquently sums up how many of the members of the AWC class of 1980 probably felt about their own Air Force pay and allowances. In many respects it also represents the collective opinion of the class of 1981 toward their military compensation. For despite the October 1980 11.7 percent pay increase, and the new variable housing allowance, a considerable amount of concern and disgruntlement still exists among top-quality senior officers toward current compensation levels.

Numerous examples of concern are evident in the 1981 survey results. More than 66 percent of the class of 1981 personally viewed the October 1980 pay and allowance increases as less than adequate. More than 16 percent viewed the increases as far less than adequate. Ninety percent of the 1981 class said their pay and benefits compensation is inadequate.

given the inherent risks and hardships of an Air Force career. Exactly the same percentage of the 1980 class felt the same way. Eighty-two percent of the 1981 class reported that it was hard to save money on their Air Force income, and over 86 percent indicated varying degrees of concern about making financial ends meet (32 percent "sometimes" concerned, 31 percent "usually" concerned, and 24 percent "always" concerned).

Two responses in this category reflected statistical significance between the opinions of the two classes. First, the percentage who believe they receive appropriate increases in benefits and privileges with each promotion rose from approximately 28 percent in 1980 to 46 percent in 1981. In the second area of significance, 90 percent of the 1981 class believe full dental care would be a valuable retention incentive. This percentage was over 5 percentage points higher than in 1980. The statistical significance is attributed to the much higher percentage of "strongly agree" answers in 1981--50 percent versus only 34 percent in 1980.

Three questions addressed the benefits issues. Approximately 94 percent of the 1981 class said that benefits are not as attractive as they once were. This percentage was down just over 3 percentage points from the previous year. In the medical area 63 percent in 1981 believed medical care to be a major benefit. This percentage was 5 percent lower than in 1980. On the other hand, only 38 percent of the 1981 class preferred contributing to a group plan for medical and dental care, compared to 45 percent in 1980.

In November 1980, the <u>Air Force Times</u> carried the details of a study conducted by two Air Force researchers as to why pilots were leaving the service. According to the article, "The main reason pilots leave the Air Force is they are not allowed to fly enough. All the other reasons—low pay, promotions, excessive responsibilities, etc.—though important, are secondary in the decision to leave the service." (3:1) The majority of pilots in the AWC class of 1981 had a different opinion. Told to assume they were in a flying job and given the opportunity to choose between a 20 percent increase in flying hours or a 20 percent increase in pay and allowances, 68 percent of the pilots selected the pay boost.* This indicates the possible existence of a crossover point between compensation needs and flying needs during an Air Force pilot's career.

One other question in this category which produced interesting results dealt with the amount of non-Air Force income received by each respondent and/or his wife. Possible answers ranged from "less than \$1000 annually" to "greater than \$30,000 annually." Twenty-one percent indicated outside income in excess of \$30,000 annually. This was also the modal response. The reason for asking this question will be covered in more detail in the section dealing with career intentions.

^{*}Eighty-five percent of the navigators in the class chose the extra pay.

Statistically Significant Demographic Relationships*

were dependent on grade. Lieutenant colonels tended to strongly agree more often than colonels that it is difficult to save money on Air Force pay. The gamma value indicated, however, that the relationship in this sample was very weak. Lieutenant colonels were also more concerned about making ends meet than were colonels. The relationship was strong in this sample. Finally, colonels tended to have a bit more non-Air Force income than did lieutenant colonels, although the sample relationship was very weak.

Age: Two response patterns depended on age. Older officers more often indicated that they receive appropriate increases in benefits and privileges with each promotion.

Older officers also tended to be more moderate in their criticism of the adequacy of the October 1980 pay raise. Both relationships, however, were weak.

PLSD: As with age, those with older PLSDs tended to be less critical of the amount of the October 1980 pay increase. The relationship was weak.

Aeronautical Rating: Three questions were dependent on aero rating, but all three relationships in this sample were weak. There was a slightly higher tendency among nonrated

^{*}See appendix C for this Chapter's crosstabs printouts.

officers to indicate that they received appropriate increases in benefits and privileges with each promotion. Nonrated officers also indicated slightly more concern about making financial ends meet (probably because of the absence of flying pay). Finally, nonrated officers tended to more strongly disagree that medical care is a major Air Force benefit.

Question-to-Question Crosstabulations

The relationship between question 127 (there is adequate compensation, in terms of total pay and benefits, for the risks and hardships, of an Air Force career) and question 143 (Air Force benefits are just as attractive as they used to be) was statistically significant and very strong. Most who said compensation was inadequate also said benefits were less attractive, thus confirming the expected consistency of response between these items. Question 127 was also crosstabulated with question 158 (Air Force pay and benefits are comparable to those received for similar responsibilities in private industry). This relationship was statistically significant and very strong, confirming the consistency of response.

In the area of medical benefits, those who considered Air Force medical care to be a major benefit (question 133) generally did not want to provide for health care by contributing under a group plan (question 145). The relationship was statistically significant and fairly strong.

Three crosstabulations were conducted with question 172 which asked respondents to identify the range of their non-Air

Force income. None of these relationships was statistically significant, and all were weak; nevertheless, there is some utility in examining each one separately. First is the relationship between level of extra income and the ability to save money on Air Force pay (question 124). This crosstab indicated a confidence level of 93.7 percent, very near but still below the mandatory 95 percent level. Gamma, however, showed the strength of relationship to be very weak, with a negative sign. An examination of the table indicates that those with lower levels of outside income tend to be the same ones who think it is hard to save money on their Air Force income. The reverse, however, does not seem to be quite the case as higher levels of outside income do not necessarily equate with an attitude that it is easy to save money on Air Force pay. The conclusion is obvious: those with lower incomes find it harder to save money; and no statistical analysis was necessary to confirm that fact!

The most interesting crosstabulation in this financial category is also the most inconclusive one, statistically speaking. Again, the level of outside income was compared to the degree of concern about making financial ends meet (question 167). Here the confidence level in a true relationship was only 41 percent, and the gamma was extremely weak. There are, however, 22 cases of individuals with outside incomes in excess of \$30,000 who report a moderate to high concern with making financial ends meet. This contrasts with the 21 cases of individuals with outside incomes of less than \$1000 per year who

share the same concern about finances. Any conclusions about this are left to the reader.

Finally, level of outside income was compared to how the class of 1981 viewed the October 1980 pay increase (question 168). Again, the confidence level was low (48.7 percent), and the gamma was weak, with a negative sign. The most reasonable conclusion is that those with high outside incomes were almost as disappointed in the level of the 1980 raise as those with low outside incomes.

Other Observations

Lieutenant colonels tended to more strongly agree that full dental care would be a valuable retention incentive (question 117). While not statistically significant (confidence level: 94.7 percent), the gamma value indicated a reasonably strong relationship for this sample. In a similar vein, younger respondents reported higher degrees of concern with making financial ends meet (question 167). The confidence level was only 93.8 percent, but the gamma was sufficient to indicate another reasonably strong sample relationship.

One question-to-question chi-square test was conducted manually. The written responses to question 189 (how much pay increase is necessary to retain senior officers until they near mandatory retirement) were grouped into ranges as follows:

Percentage Range	Number in Range
0 - 9%	20
10-14%	43
15-19%	19
20-29%	46
30-100%	9

These ranges were then crosstabulated with the responses to question 164 (what are your career intentions?). The chisquare statistic was 22.54 for 12 degrees of freedom; thus, the relationship was statistically significant at the .05 level. Gamma was not computed, but the relationship pattern indicated that those who intended to stay in the Air Force longer tended to recommend a lower percentage pay increase. The reverse relationship was approximately as strong; those who indicated an intent to retire sooner, wanted more money as an incentive to stay longer.

Category Summary

While the 1981 survey may reflect a slight improvement in the financial outlook of these highly select officers, it is apparent that much ground still needs to be covered before any perceived "comfort" level is reached. Rather than one speculating on what it will take to show substantial improvement, it seems preferable to adopt a "wait and see" approach. The two pay raises planned for 1981, totalling about 14 percent, should help. But it remains the task of the Air War College class of 1982 to tell us how much.

CHAPTER IV

FAMILY CONSIDERATIONS

Response Analysis

In today's ultra-modern American society, the family plays a wider and wider variety of important roles in the life of the successful male wage earner. These roles frequently range from a highly intangible source of love, pride, and satisfaction to a highly tangible source of income needed to keep pace with inflation. In return, the family is also placing greater demands on the husband/father.

The contemporary American family seems less inclined to accept the stresses associated with long hours on the job, sometimes lengthy business trips, and frequent cross-country or even international moves necessitated by career advancement. Wives and children have learned that they can demand--and often receive--more quality time and attention. These problems are frequently magnified when the wife works--either out of economic necessity or to fulfill personal desires, or both. If the wife's job has career potential,* she becomes reluctant to move. She begins to taste success outside the home environment and, like any ambitious person, seeks more. All too often this sets up

^{*}A recent Air Force Quality of Life survey administered to 5000 service members revealed that 56.3% of officers spouses are pursuing a career. (9:16)

a confrontation between marriage, family, and career(s) And something more and more frequently gives—the marriage, one career, or both careers.

Air Force families are certainly not immune to this classic mise en scene. Often these pressures are magnified exponentially in the military and are frequently translated into a growing family disenchantment toward the military as a way of life. This dissatisfaction usually manifests itself through pressure on the military member to stabilize matters by retiring as soon as possible or at least throttling back on the job. In either case, military readiness may suffer.

The questions in the survey relating to family considerations offer an opportunity to determine how a group of highly successful Air Force officers and their families are coping with the stresses and strains of modern military life. As with the overall survey, there is some good news here too. From a subjective viewpoint it would seem that family attitudes have changed positively in direct proportion to the attitudes of the 1981 class members. The majority of the eight questions in this category reflected improvements from last year. While none of the differences were statistically significant, the percentage changes deserve attention and comment.

Approximately 86 percent of the married officers in the class of 1981 believed that an Air Force career had had a positive effect on their families. This rate is slightly more than 10 percentage points higher than last year--a positive

trend. Complementing this trend was the percentage gain in the number of married officers who indicated that their families supported their continuing their careers. This percentage increased from 58 percent in 1980 to nearly 68 percent in 1981. An alternate perspective, however, is that one-third do not feel that their families want them to stay in the Air Force. This amount of negative internal family pressure should be a source of concern to management for several reasons, not the least of which is the influential nature of those expressing this particular opinion.

In terms of assignment stability the changes from 1980 to 1981 were very slight. Almost 89 percent of the class of 1981, versus 85 percent in 1980, said that increased assignment stability would have a positive effect on the Air Force. Correspondingly, the percentage of officers surveyed who want more assignment stability decreased from 56 percent in 1980 to 53 percent in 1981. These latter response rates could be somewhat misleading, because they do not precisely account for any respondents who have had relatively stable careers and who might have preferred to move more often. Approximately 45 percent of both classes reported that they would move unaccompanied to preserve children's education or wives' careers. Interestingly, those who strongly agreed with this statement increased from 10 percent in 1980 to 17 percent in 1981. This 1981 "strongly agree" percentage contrasts to the 19 percent of married Air

Force officers in this class who came to Air War College unaccompanied by their families.

In 1980, slightly more than 76 percent of the class indicated that their wives were working or would soon have to work to maintain the standard of living desired by the family. This percentage decreased more than 10 percentage points in 1981 to just under 66 percent. This reduction seems to indicate that the October 1980 increases in pay and allowances have contributed to improving the desired living standards of at least some senior officers. It will be very interesting to compare the results of the 1982 survey in view of the anticipated 1981 pay increases of about 14 percent.

Last year, 77 percent of the 1980 class felt that their families had to make greater sacrifices for Air Force career advancement than would have been required for comparable advancement in industry. This year that percentage decreased to 65 percent. There is no readily apparent explanation for this trend; however possibilities include an improved concern by leadership for Air Force families and a better understanding of what is required for advancement in the private sector.

The answer to the final question in this category also reflects an improvement from 1980, but, even so, the response percentage is still substantially negative. Last year, only 45 percent said they would encourage their children to consider an Air Force career. This year, 55 percent would offer such encouragement. However, in the author's opinion this still seems about 25 percentage points lower than it should be for this group of officers!

Statistically Significant Demographic Relationships*

Grade: Lieutenant colonels tended to strongly agree more often than colonels with the statement that increased assignment stability would have a positive effect on Air Force organizations and personnel. This relationship was strong. In a similar vein, exactly 75 percent of lieutenant colonels indicated that it is or would soon be necessary for their wives to work to maintain the desired standard of living. This compares to only 55 percent of colonels who responded in the same fashion. This relationship was fairly strong.

Question-to-Question Crosstabulations

As expected, the relationship between questions 115 (my career has had a positive effect on my family) and 144 (my family favors my continuing my Air Force career) was statistically significant and strong. Positive career effects matched closely with families favoring a continued career. Question 144 was also crosstabulated against question 164, which asked the respondents' career intentions. Those who indicated that their families favored their career also tended to be the ones who plan to stay on active duty longer. The relationship was statistically significant and very strong. The lesson is obvious—satisfied families mean longer careers.

^{*}See appendix D for this chapter's crosstabs printouts.

Question 129 (it is or will soon be necessary for my wife to work to maintain our desired living standard) was compared to two financial questions. The first crosstab was question 167 (various degrees of concern about making financial ends meet). As expected, those whose wives who are working or plan to work are also generally more concerned about making financial ends meet. The relationship was statistically significant and very strong. Conversely, the relationship between question 129 and 172 (what is the amount of non-Air Force income which you and/or your wife receive?) was not statistically significant (confidence level: 42 percent) and very weak. One conclusion which can be reached is that there is almost no association between outside income, even as high as \$30,000, and the need for a wife to work to maintain the desired living standard. It could also be said that there are a wide variety of living standards among the group.

Question 148 (increased assignment stability would have a positive effect on the Air Force) had a statistically significant and extremely strong relationship with question 142 (I would prefer more assignment stability). This was an expected result; however, the absence of any "strongly disagree" responses on question 148 resulted in the 4x3 crosstab making the extremely high gamma value a bit suspect.

Other Observations

Officers in the grade of colonel, or who were older, or who had more time-in-service indicated more often than others

that their families favor their continuing these careers. None of these three relationships was significant; a side at levels were: 89 percent for grade, 69 percent for age, and accept for time-in-service. However, the gamma values achies purchase ticular sample were fairly strong. The possible explana: a for this pattern is that the families of the younger, more junior officers are experiencing some degree of an avalence toward their husbands' careers which will likely antinue until their husbands cross the successful-career thresa, via promotion to colonel. Despite the Air Force's protestations to see contrary, achieving the grade of colonel is still the real mark of a successful career, especially for an elite grow of cardcharging lieutenant colonels attending Air War Colleg

Category Summary

The most significant information in this category is that senior officers whose families are happy and satisfied with the Air Force tend to stay on active duty longer. The same probably applies to all married Air Force members—not just the senior group.

In this regard, it is worth noting a portion of a letter written approximately four years ago by an Air Force brigadier general to the editor of <u>The Times Magazine</u>, the supplement to the <u>Air Force Times</u>. This letter offered some career advice to young officers and NCOs, and in one paragraph it said: "The Service doesn't come first—people do. The men and women, their

spouses and kids," (10:4) It would appear today that the corporate Air Force seems to appreciate that notion more than ever before—given all the emphasis being paid to people and families. Adequate pay and sincere concern and action directed toward further improvements in the human side of Air Force life are the best tangible solutions for making real progress in the retention arena.

CHAPTER V

SOCIAL LIFE/CAMARADERIE

Response Analysis

This category was added to the survey at the request of an Air War College faculty member who argued, very persuasively, that negative attitudes and trends in the social life/camaraderie aspects of the Air Force life are contributing to the Air Force's retention difficulties. The responses to the five questions in this category would seem to confirm this contention.

Approximately 93 percent of the class disagreed (34 percent strongly) with the statement that "The social/camaraderie aspects of Air Force life are better than they were 10 years ago." Although this question did not ask if social aspects had worsened over the past 10 years, that interpretation does not appear unreasonable, particularly in view of the highly skewed response pattern and the solid proportion who strongly disagreed. Contributing to this interpretation was the response distribution to the statement, "In my last job my supervisors actively emphasized the social/camaraderic aspects of Air Force life." Fifty percent agreed; but fifty percent did not, and the response pattern was one of the most symetrical encountered (9.3% - 40.7% - 40.0% - 10.0%).

In a positive vein, 84 percent agreed (31 percent strongly) that a strong social atmosphere within an organization

is an asset to retention. Similarly, over 91 percent agreed (47 percent strongly) that the best organizations they have worked in had high esprit and morale and strong camaraderie, on and off the job.

It seems clear that most of the officers in this group prefer a strong social life/camaraderie atmosphere; however, Air Force organizations do not seem to be meeting this need. As a possible result, slightly more than 50 percent of this class have turned more to civilian friends and the civilian community for their social life. In the opinion of this author, other factors may also be contributing to this change in social patterns—such as the trend toward off-base living and the growing inability of Air Force clubs to compete with off-base establishments on the bases of price and quality.

Statistically Significant Demographic Relationships*

Time-in-service and PLSD: Those with relatively more time in service and those with older PLSDs had a greater propensity to strongly agree that the best organizations were those with high morale and esprit. Both sample relationships were strong.

Aeronautical rating: More than 63 percent of the pilots and 51 percent of the navigators but only 24 percent of non-rated officers strongly agreed with the statement that the best

^{*}See appendix E for this chapter's crosstabs printouts.

organizations are those with high esprit. A similar pattern emerged with regard to the statement that a strong social atmosphere is an asset to retention. Both sample relationships were strong.

Source of commission: Those who indicated "other" as a source of commission were more inclined to strongly disagree with the statement that the social aspects of Air Force life are better than they were ten years ago. The sample relationship was very weak.

Question-to-Question Crosstabulations

There was a statistically significant, extremely strong relationship between the responses to question 146 (a strong social atmosphere is an asset to retention) and question 156 (the best organizations I've worked in had high esprit and strong camaraderie). Each respondent tended to answer both questions the same way--positive-positive or negative-negative. This fact validates the consistency of response expected between these questions.

The cross tabulation between question 131 (the social aspects of Air Force life are better than they were 10 years ago) and question 160 (have turned more to civilian friends and community for social life) was not statistically significant and reflected a very weak association.

Other Observations

Grade: Colonels tended to agree more often than lieutenant colonels that a strong social life/camaraderie atmosphere is a major asset in retention. Colonels also strongly agreed more often that the best organizations they had been in had high esprit, morale, etc. Both relationships were fairly strong, but neither was statistically significant.

Age: Younger officers more often disagreed and older officers more often strongly agreed that the best organizations they had served in had high esprit and morale were in the younger age categories. The relationship was fairly strong but not statistically significant.

Category Summary

There is an identifiable pattern within the responses to these questions. Not surprisingly, the members of the class most concerned about deficiencies in the social life/camaraderie aspects of Air Force life are those who are rated, older, more senior, or have more years in the Air Force. Class members with these characteristics tend to be the ones who have spent much of their careers in flying jobs where mission, unit cohesiveness, and a strong social tradition provide a great deal of individual satisfaction, esprit, and camaraderie. There may also be a hidden thread of nostalgia in these responses—a longing for the "good old days."

Lessons to be learned from this category are that there is still a strong need among our best senior officers for a healthy, positive Air Force social climate, and that organizations having such a climate are highly desirable places to work.

CHAPTER VI LEADERSHIP

Response Analysis

The changes of opinion in this category were the most positive of any in the survey. Comparisons of the responses from the two classes reflected differences of statistical significance in nine of the twelve questions in the category. The most dramatic changes were noted in the classes' opinions on how Air Force leaders were dealing with the retention problem. Last year, only 48 percent felt that senior Air Force leaders were well aware of the seriousness of the retention problem. In 1981, this percentage increased to 75 percent. Correspondingly, only 31 percent of the 1980 class said that Air Force senior leaders were taking positive action to improve the quality of life in the Air Force. In 1981, this percentage more than doubled to 76 percent—the largest shift of opinion in the entire survey. Both changes were statistically significant.

The efforts of Air Force leaders to improve the quality of Air Force life are being frustrated by the Congress and the executive branch, according to 87 percent of the class of 1980. Seventy percent of the class of 1981 indicated a similar feeling, a statistically significant shift. Recall that this survey was administered just prior to President Reagan's inauguration.

Even greater evidence of administration and congressional support since then would probably cause that percentage to drop much further if the same question was asked today. It will be very interesting to see the results of this question in the 1982 survey.

There seems to be a realistic appreciation among both classes that it is difficult to resolve career irritants at the unit level. Eighty-three percent of the 1980 class and 78 percent of the 1981 class were of that opinion. However, according to 63 percent of the 1981 class, Air Force leaders are more inclined to take suggestions on retention issues from the squadron and wing levels. This compares to 51 percent in 1980. This latter change was statistically significant.

Three questions in this category dealt with centralization of management. Not unexpectedly, 95 percent of the class of 1980 and 90 percent of the class of 1981 felt that it was unnecessary to centralize management further in spite of tougher budgetary and technological challenges. The 1981 class is less inclined, however, to lay the blame for today's micromanagement environment within the Air Force on demands coming from outside the Air Force. Only 48 percent of the class of 1981 blamed the legislative and executive branches for overcentralizing management, compared to 66 percent of the class of 1980. This trend was also evident in the fact that 71 percent of the class of 1981 said that the Air Force can internally resolve the issue of centralized versus decentralized management. This percentage

was up almost 9 percentage points from the previous year. Since the difference in the answers to the last two questions were statistically significant, it would seem that the class of 1981 is looking askance at the Air Force's inability to halt, and certainly reverse, the micromanagement trend

The remaining four questions considered how the class personally viewed their seniors in the Air Force in terms of quality of leadership and the ability to develop leadership in subordinates. There was a marked difference in the 1980 and 1981 classes in this area. The most significant, both statistically and importantly, was that only 48 percent of the class of 1980 believed that Air Force general officers provided positive and effective leadership. Twelve months later, this percentage increased to 74 percent for the class of 1981. The only possible explanation for this improved attitude is a difference in classes, because the general officer force did not change that much in one year

While the class of 1981 is much more impressed with the general officer force, approximately half of the class is frustrated by the actions of these same generals. This frustration frequency, however, is 10 percentage points lower than it was in the class of 1980.

Despite these frustration levels, about three-fourths of both classes indicated that in their most recent assignments, they had been given authority commensurate with their rank and responsibility. (The difference in answers to this question was not statistically significant.) Conversely, 62 percent

of the class of 1981 did not feel that the Air Force's institutional environment is conducive to developing military professionals. This percentage represents a decrease from 75 percent in the 1980 class. This question was statistically significant.

Statistically Significant Demographic Relationships*

Age: Younger officers had a slightly higher tendency, and older officers a lesser tendency, to be frustrated by the actions of senior Air Force leadership (question 126). The sample relationship was somewhat weak.

Aeronautical rating: More pilots tended to believe that the issue of centralized versus decentralized management is one that can be resolved internally by the Air Force (question 125). The relationship was fairly strong.

Question-to-Question Crosstabulations

Most of those who felt that senior leaders are well aware of the retention problem (question 119) also said that these leaders are taking positive action to improve the quality of Air Force life (question 128). This relationship was statistically significant and very strong, confirming the expected response consistency. Question 128 was also compared to question 121. (Congress and the executive branch are frustrating

^{*}See appendix F for this chapter's crosstabs printouts.

the efforts of Air Force leaders to improve quality of life,)
This relationship was significant and strong,

On the overcentralization of management issue, those who said the issue can be resolved within the Air Force (question 125) also tended to say that the demands of Congress and the executive branch were not the cause of the problem (question 159). The relationship was statistically significant and very strong.

The leadership area within this category also produced response consistency. Those who are not frustrated by the actions of general officers (question 126) also think these general officers provide positive and effective leadership (question 155). Even among those who are frustrated by general officers, the majority still think these generals are doing a good job.

The chi-square test indicated response consistency between question 140 (Air Force leaders are receptive to suggestions about retention from the wing and below level) and question 152. (Most career irritants can be resolved at wing and squadron level.) However the gamma value was extremely weak, indicating the sample relationship was very questionable

Finally, no relationship was indicated between question 135 (in recent assignments, I have been given authority commensurate with my rank and responsibility) and question 150. (The current institutional environment in the Air Force is conducive to developing military professionals.) The confidence level was 61.5 percent, and the gamma was fairly weak.

Other Observations

Aeronautical rating had a moderately strong but not statistically significant relationship with question 152. (The capability to resolve career irritants at wing level and below.) Most respondents disagreed, but nonrated officers disagreed most often. The confidence level was 94.7 percent

Category Summary

Perhaps as a result of the mood of the 1981 class toward the leadership issue, it is difficult to attach much importance to this particular category, simply because it no longer seems to be a problem. Last year, there was a very clear thread of animosity among the majority of responses to the questions which dealt with leadership. This thread does not exist today—in any event, certainly not to the extent which it did last year. The only controversial issue in this portion of the survey is micromanagement. It seems that the 1981 class is much more concerned about it, but the survey does not reveal why. Next year's survey should perhaps probe that issue in more detail.

CHAPTER VII

RETENTION

Response Analysis

Considering all the play given to military retention problems during the last year, not only by the media, but through official channels and from the AWC stage, a member of the class of 1981 would have to be deaf or blind, or both, to say that the Air Force does not have a retention problem.

Maybe it was the word <u>serious</u> in the question, or the fact that a senior Air Force leader had just said that retention was looking a bit better, or maybe it was mismarked answers, but there must be a valid explanation why four students in the 1981 class disagreed—one strongly—that retention is a "serious problem."

The responses to the questions in this category were the most heavily skewed in the survey. Moreover, with the exception of the family category, there was a great deal of consistency in the responses from both classes; only one question produced differences in responses which were statistically significant.

Ninety-seven percent of the 1981 class agreed that retention is a serious problem in the Air Force, up 1 percent from 1980. Likewise, 94 percent of the class of 1981 agreed that Air Force retention problems are more real than imaginary, again up 1 percent from 1980.

At the micro level, 83 percent of the 1981 class believe that the Air Force has a retention problem at the senior-

officer level (lieutenant colonel and above). However, only 27 percent of the class would be willing to slow down promotions in order to increase retention at the senior level.

Members of the 1981 class were also asked to write down the percentage increase they would apply to pay and allowances in 1981, over and above a cost of living increase, to provide a strong incentive for career officers to remain on active duty until within two years of retirement. A wide variety of answers was given, ranging from 0 percent to 100 percent. The response mean was 17.4 percent, the median was 14.5 percent, and the mode was 20 percent. (Twenty-eight respondents opted for a 20 percent increase.) For practical purposes the response was bi-modal, as 27 respondents chose a 10 percent increase. There is some doubt that this question was fully understood; hence its reliability is questionable. Nevertheless, the intent was to achieve some insight as to how much it would cost to keep the best people on board through 28 years.

Eighty-five percent of the class of 1981 said it was difficult to motivate young officers and NCOs to make the Air Force a career. A slightly higher percentage (87 percent) of the 1980 class reported difficulty motivating officers. However, only 78 percent of that class indicated difficulty motivating NCOs.

Part of the difficulty in motivating others towards a career may be the motivator's personal beliefs and motivations.

In this respect, the class of 1981 has a distinct edge over the

class of 1980. Almost 64 percent of the 1981 class reported that their own motivation towards a career has made it easy for them to promote such a career for others. This percentage contrasts to only 55 percent for the class of 1980, and the difference was statistically significant. Thirty-one percent of the class of 1981 said that an Air Force career is an appealing option in today's society, up 5 percent from the previous year. These latter percentages are not surprising considering that roughly half of each class would encourage their children to seek an Air Force career.

One interesting question sought to determine whether retention problems were caused primarily by an attractive job market or by problems internal to the Air Force. Both classes leaned heavily toward identifying internal problems as the culprit (87 percent in 1980, 85 percent in 1981). Between January 1980 and January 1981, a mild economic recession occurred, and airline-pilot hiring ceased for all intents and purposes. To accommodate those developments, a question was added to the survey asking which had the more bearing, positive or negative, on retention—external factors, such as civilian jobs, or internal factors such as Air Force policies and procedures. Seventy-five percent of the 1981 class identified internal factors. This answer suggests that the Air Force should be able to solve a lot of its own problems in the retention area.

Internal solutions are fine, but, as noted in the financial category and elsewhere, inadequate pay is still the major issue. Asked how they thought the October 1980 pay raise would aid retention, 71 percent of the 1981 class said it would "help some," whereas nearly 24 percent indicated only a neutral or "no help" answer. Obviously, there is still room for improvement.

Statistically Significant Demographic Relationships*

Grade: Lieutenant colonels more often agreed and colonels more often strongly disagreed that an Air Force career is an appealing option in today's society (question 153). The sample relationship was only fairly strong.

Age: There was a very weak relationship between age and question 162. (My own motivation toward the Air Force has made it easy for me to promote a career for others.) Older officers were slightly more positive toward that statement than younger officers.

PLSD: Those with more recent PLSDs tended to agree more often that the Air Force is an appealing employment option.

The sample relationship, however, was weak.

Source of Commission: OTS graduates more often tended to believe that the October 1980 pay raise would "help some" in aiding retention.

^{*}See appendix G for this chapter's crosstabs printouts.

Question-to-Question Crosstabulations

Statistical significance among four crosstabulations validated response consistency in this category. Those who said the Air Force had a serious retention problem (question 161) strongly tended to agree that the retention problem was more real than imaginary (question 122). Most of those who found it hard to motivate NCOs (question 123) also found it difficult for young officers (question 137). Most class members who identified internal problems as the cause of retention problems on question 163 also identified internal factors in question 171. Finally, the majority of those who said the Air Force has a senior-officer-retention problem also said that it was more important to maintain a healthy promotion flow than to increase senior-officer retention.

Other Observations

Regarding the choice between increasing senior officer retention or maintaining a healthy promotion flow, lieutenant colonels were more in favor of the promotion flow than colonels, 83 percent versus 70 percent. The relationship was not statistically significant (confidence level 88.2 percent), but it was fairly strong in the sample.

Category Summary

Both the 1980 and 1981 AWC classes are aware of the retention problems facing the Air Force. They report a high degree of difficulty in motivating young officers and NCOs

toward making the Air Force a career. Some report this difficulty is attributable to their own motivation; however, it is
less of a problem for the 1981 class. Internal factors bear
the brunt of the blame for poor retention, but pay is still
the most significant single issue. The recent pay raise helped,
but more pay is needed. This 1981 class believes that the Air
Force also has a senior-officer retention problem, but the
class feels that maintaining a healthy promotion flow is more
important than improving senior-officer retention.

CHAPTER VIII CAREER INTENTIONS

Response Analysis

This chapter represents the most important portion of the survey. It looks beyond the stated to word quinions on the issues, and true to a model which the result of a model to are planning with regard to the model and the result.

Before addressing that the first we need to take a quick look at some facts and figures about officer voluntary retirements. There seems to be a perception that more and more colonels and lieutenant colone(s are retiring each year at earlier and earlier points in their careers (after reaching retirement eligibility, of course). This perception is partially correct, the percentage of retirements is up; however, the average years of active service at retirement has actually been relatively stable, and, in the case of colonels, has even increased about one year. This can be seen from table 1 on page 52.

Intuitively, it would appear that the majority of the additional colonels who are retiring are those who have been on active duty <u>longer</u>; otherwise, the average years of service would be dropping substantially. Table 2, page 52 confirms that conclusion. The loss rates for colonels with longer service time have increased substantially from 1977 through 1979, whereas,

the loss rates are relatively stable for colonels with relatively less service.

TABLE 1
OFFICER VOLUNTARY RETIREMENTS*

cal ar Colonel			Lieutenant Colonel		
#	% of elig	Avg yrs of sve	#	% of elig	Avg yrs of svc
698	14.0	25.3	1245	18.2	23.0
618	12.5	25.8	1202	17.7	22.4
804	17.8	26.5	1608	25.3	22.9
795	18.0	26.3	1549	13.3	22 .8
	698 618 804	# elig 698 14.0 618 12.5 804 17.8	# % of elig Avg yrs of svc 698 14.0 25.3 618 12.5 25.8 804 17.8 26.5	% of Avg yrs elig Avg yrs of svc # 698 14.0 25.3 1245 618 12.5 25.8 1202 804 17.8 26.5 1608	# % of elig Avg yrs of svc # elig % of elig 698 14.0 25.3 1245 18.2 618 12.5 25.8 1202 17.7 804 17.8 26.5 1608 25.3

*Source: USAFMPC/MPCAR (2)

TABLE 2

COLONEL VOLUNTARY LOSS* RATES BY YEARS OF TAFCS COMPLETED***

TAFCS** (Yrs)			12 mo period ending:
22	Dec 77 56	$\frac{\text{Dec } 78}{18}$	Dec 79 28
23	100	72	95
24	152	106	109
25	148	154	193
26	179	200	243
27	211	206	309

^{*}Loss equates to retirement for this grade

^{**}Total Active Federal Commissioned Service.

^{***}Source: USAFMPC/MPCYAA (8)

If the members of the class of 1981 do retire at the times indicated by their responses to survey question 164, then the average years of service at retirement for the class would not be too different from the average years of service at retirement for colonels who have recently retired. Nor, for that matter, would the average years of service at retirement for the class of 1980 differ substantially from these averages.

The following are the stated retirement intentions of the two classes:

		1980 <u>Class</u>	1981 <u>Class</u>
	Will stay as long as they can	5 . 1%	7 , 9%
2.	Probably will stay as long as they can	17,9%	19.3%
3.	Undecidedbut won't retire early or stay till manda-		·
	tory	48.7%	52 .1%
4	Probably will retire as soon as eligible	17,1%	14.3%
5.	Will retire as soon as		
	eligible	11,1%	6.4%

If years of service at retirement such as 30, 28, 25, 23, and 21 are arbitrarily placed against those percentages, then the average years of service for retirement would be 25,4 years for the 1981 class and 25.0 years for the class of 1980. But those averages are somewhat meaningless, because they blend colonels and lieutenant colonels into a single figure. What is revealing, however, is to compare the career intentions of the 1981 class against demographic characteristics, disregarding statistical significance or strength of relationship.

Service-related* demographic crosstabs revealed that only 11 percent of the colonels will, or probably will, retire as soon as eligible. This contrasts with 29 percent for lieutenant colonels. Thirty-five percent of the pilots will, or probably will, stay as long as they can. This compares to 15 percent for navigators and 24 percent for non-rated officers. "Undecided" navigators were highest at 59 percent compared to 52 percent for pilots and 48 percent for nonrated officers. An interesting aside is that 57 percent of the pilots indicated their career goal was general officer. Only 37 percent of the navigators and 40 percent of nonrateds indicated that goal. This combination of aeronautical rating, career intent, and career goal indicates that pilots accurately perceive a greater opportunity for further advancement and longer careers than do the other groups.

Source of commission was a bit surprising, at least on the surface. Only 13 percent of service academy graduates indicated they will, or probably will, stay as long as possible. This compared to 32 percent for OTS, 29 percent for ROTC and 27 percent for "other" (principally aviation cadet). Service academy graduates were the highest "undecided" group at 66 percent, and at 26 percent ROTC graduates were the

^{*}Grade, aeronautical rating, source of commission (see appendix H for these crosstabs)

highest group to indicate the tendency to retire as soon as possible. In all fairness, these source-of-commission relationships were essentially meaningless, with a gamma of .01 and a confidence level of only 39 percent

This amount of detail is intended to dispel any notion that the best Air Force colonels and lieutenant colonels are leaning heavily in the direction of much shorter careers.

Anderson, in his study, noted the possibility of such a trend among the mumbers of the AWC class of 1980. He reported that 53 percent had become more inclined to retire when first eligible and that 75 percent had become less inclined toward a 30-year career. He concluded that:

These results ... should prompt additional research and considerable concern. An institution which promotes from within for all executive positions must be able to retain those groomed for senior executive responsibilities. Professional military education is a poor investment if the graduates do not remain on active duty to assume key leadership position. (1:20)

Once again, the facts do not indicate the existence of a real problem in this area. Moreover, it seems unrealistic to expect the vast majority of senior-service-school graduates to remain till mandatory retirement. Every AWC class is made up of the Air Force's most competitive, ambitious officers, who will soon come face to face with the very real career limitations imposed by an extremely small number of general-officer billets. Not even a majority of graduates can expect promotion to general. Many of those who do not succeed will retire voluntarily to pursue other careers, using the same

drive and ambition that took them so close to the top in the Air Force. Certainly, there are trade-offs here; the Air Force loses a wealth of experience, but the private sector gains a top-notch executive. And the Air Force promotion and assignment sys is preserve the vitality and opportunity so necessary to attract and retain ambitious, competitive younger officers.

In a very real sense, then, the AWC class of 1981 has a very healthy attitude with regard to career intentions. This assessment is made ever more meaningful by the high probability that almost all of the lieutenant colonels in the class will be promoted to colonel and take on a fresh outlook regarding their careers. In fact, 82 percent of the lieutenant colonels and 83 percent of the colonels in the 1981 class reported that another promotion would have a positive impact on their career intentions. The combined class average of 82 percent was 6 percentage points higher than last year, and the difference was statistically significant, primarily because of a higher "strongly agree" percentage in 1981 (44 percent versus 32 percent).

The "Inclination" Questions

As previously noted, the 1980 survey asked respondents their inclinations regarding early or late retirement. The results were: 53 percent had become less inclined as soon as eligible, and 75 percent had become less inclined to stay on

board till mandatory retirement. The 1981 class offers an interesting contrast; only 43 percent had become more inclined to exit early, and only 63 percent had become less inclined to stay for a full career. This latter change was statistically significant.

The problem with these two questions is that the results offered no bases for comparison. For example, if a respondent says that he is less inclined to stay in than he was five years ago, does that mean his inclination has dropped from 90 to 85 or from 30 percent to 0 percent, or does it mean that his inclination has not changed at all? To determine this latter possibility, two questions were added to the 1981 version. Among the class of 1981, 25 percent reported that they have always been inclined to remain till mandatory retirement, and 20 percent said they have always been inclined to retire when first eligible. Once again, these answers have limited utility because they do not reveal the degree of inclination. The best solution seems to be to drop these four questions next year and design some questions with adverbial descriptors—such as occur in question 167

Statistically Significant Demographic Relationships*

Grade: This demographic factor was related to three questions. On question 165, 55 percent of lieutenant colonels

^{*}See appendix H for this chapter's crosstabs printouts,

said their career goal was general officer. The sample relationship was very strong. This pattern is also reflected in the grade relationship with question II8. (My career goal is to make 06 and retire while still young enough to compete in the civilian market.) Fifty-eight percent of the lieutenant colonels agreed; 76 percent of the colonels disagreed. This sample relationship was also very strong. Finally, 57 percent of colonels thought promotion to general officer was worth the time and effort (question 149); however, 64 percent of lieutenant colonels disagreed. The sample relationship was fairly strong.

Age: Younger members of the class tended to disagree that they were more inclined to remain on active duty till mandatory retirement than five years before (question 120). The relationship for this sample was fairly strong.

PLSD: Respondents with older PLSDs indicated more often that it was not their career goal to make 0-6 and retire early (question 118) The relationship was fairly strong.

Aeronautical rating: Pilots indicated much more often (94 percent of the time) that they have <u>not</u> always been inclined to retire when first eligible (question 154) (Sixtyseven percent of the navigators and 70 percent of the pilots felt the same way.) This relationship was fairly strong.

Source of Commission: Eighty-seven percent of the Academy graduates felt that promotion to general officer was not

worth the time and effort it takes to achieve it (question 149). Those from OTS, ROTC, and "other" split equally on the question. The sample relationship was extremely weak

Question-to-Question Crosstabulations

Question 164 (career intent) was compared to four other questions, three of which were for response-consistency validation. Those who indicated that their career goal was to make colonel and retire while young enough to compete for civilian jobs (question 118) also tended to be considering shorter careers. Likewise, those more inclined to a 30-year career (question 120) indicated a preference for longer careers. Finally, those more inclined to retire as soon as eligible (question 141) tended to also say they were planning to retire early. All three relationships were very strong and statistically significant.

Question 172 (ranges of outside income) was crosstabulated with career intent to test the hypothesis that those leaning toward shorter careers had higher total family incomes, i.e., those planning to retire early were in a better financial position to do so. The relationship was statistically significant, though fairly weak in the sample, tending to confirm the hypothesis. One possible explanation for this relationship is that retirement decisions are influenced by the existence of a high level of outside income and the perceived need to "lock in" that income by removing the instability

factor in an Air Force career. If this theory is correct, then low pay is once more responsible for a retention problem, because financial deficiencies caused the need for the outside income in the first place.

Question 120 (I am more inclined to remain on active duty as long as I can) was compared for response consistency with question 141 (I am more inclined to retire when first eligible). Consistency was validated by statistical significance and a very strong negative gamma value. (Interestingly, eight respondents answered both questions affirmatively.)

Question 165 (career goal) was compared with question 149 (promotion to general officer is worth the time and effort). The relationship, as expected, was statistically significant and very strong. Sixty-nine percent who indicated a career goal of general officer also agreed that the promotion would be worth the effort involved.

Career goal (question 165) had a statistically significant relationship with question 118 (career goal is 0-6 and retire young enough to compete in the private sector). Those who indicated colonel as career goal also tended to agree on question 118, and those who marked general officer on question 165, tended to disagree with question 118. The gamma value indicated a very strong sample relationship.

Other Observations

There were two reasonably strong but not statistically significant relationships in the category. First, individuals

who said their career goal was general officer tended to have more time in service. Likewise, those indicating colonel as their goal have relatively less time in service (question 176 versus question 165)

In the second relationship, pilots represented 63 percent of those who have always been inclined to remain on active duty till mandatory retirement (question 178 versus question 130).

Category Summary

The perspective regarding career intent which has been described in this chapter differs substantially from that described by Anderson in the 1980 survey report. This new perspective is attributed more to a variance in viewpoints between analysts (last year's and this year's) than to the results of any statistical tests. Statistically speaking, a true difference between the career attitudes of the AWC classes of 1980 and 1981 exists in only two areas. There is a stronger tendency among the members of the 1981 class to remain on active duty till mandatory retirement, and a larger proportion of the class of 1981 reported that another promotion would have a positive impact on their careers.

This author contends that the career intentions of the top 10 percent of the colonels and lieutenant colonels are positive and healthy. Such an observation is based on a combination of four factors: a detailed analysis of the 1981 survey; the current retirement trends among all Air Force colonels; the needs of the Air Force; and, finally, the needs of

the individuals involved in this study. If this conclusion proves controversial, then the 1982 survey should help resolve the matter, but only if some fine-tuning improvements are made to the questions in this portion of the survey.

CHAPTER IX

MISCELLANEOUS QUESTIONS

Response Analysis

The final questions in the survey required respondents to list the three most positive and the three most negative factors of an Air Force career and then to write down what, in their opinion, was the most serious problem facing the Air Force. These three questions proved to be a real challenge to the respondents as well as to this author.

Numerous post-survey conversations with classmates indicated that in most cases respondents gave these written questions a lot of thought and spent the time necessary to produce some meaningful answers. Some saw it as an opportunity to get something off their chest, and a few took some "cheap shots." The positive and negative lists were the most difficult. There was a reasonable consistency in the first two listed in each category, but the randomness of the third one seemed to indicate it was a struggle for some to come up with three in each category. The "most-serious-problem" question seemed a bit easier and produced a highly consistent set of statements covering only six general categories.

Formulating the results into a manageable list turned out to be a major challenge. Anderson, in last year's study, chose to list what appeared to stand out as the three most frequently mentioned responses in each area. These were:

Three most positive factors (1980)

- 1. Job challenge and satisfaction
- 2. Service to the country
- 3. The people who make up the Air Force

Three most negative factors (1980)

- 1. Pay and allowances
- 2. Family instability or separations
- 3. Declining benefits

Most serious Air Force problem (1980)

- 1. Retention of quality people
- 2. Maintaining a viable force
- 3. Money for people and weapons systems (1 21-23)

For the 1981 study, a decision was made to categorize all the responses on each question and to build a master category list for each question. The 1981 positive factors are listed in table 3 on pages 65 and 66. The 1981 negative factors are listed in table 4 on pages 67 and 68. Finally, the single most serious problem list is in table 5 on page 69.

As mentioned in chapter II, the ranking of the positive and negative factors was accomplished by awarding 3 points to a factor every time it was listed as number one, 2 points for a number 2 factor, and 1 point for a third place factor. This is essentially the same way press services rank order collegiate athletic teams.

Interesting observations from a comparison of the results from 1980 and 1981 include the fact that "the people" moved to

TABLE 3

POSITIVE FACTORS IN AN AIR FORCE CAREER

	FA	FACTOR	NUMBER OF #1	TIMES #2	LISTED AS: #3	POINTS*	% OF POINT GRAND TOTAL
ď	The A, B,	Job/Work Job Satisfaction Flying	28 12	17	10 3	128 61	15, 3° 7, 3°
	ပံထိ	Challenge (of the job) Responsibility (of the job)	13 15	4.4.	10 1	57	6 6 5 5 5 5
	ធ្នុំក្នុ	Job Opportunities The Job Itself	7 4	ıπ	H 4	22	22 . 6 ಬೈ6 ಬೈ6
	បំ ដ	Job Diversity Job Technology Sub-total of this factor	19	1 47	4 1 8	18 2 364	2, 2% 0, 2% 43, 6%
8	The	The People	13	18	20	95	11.4%
ကိ	Ser	Service to Nation	16	10	17	85	10.2%
4.	Ret	Retirement System	10	11	14	99	7,9%
ů,	Travel	vel	2	9	15	48	5,8%
9	Pay	Pay/Benefits	1	12	∞	32	3,8%
7	Adv	Advancement/Promotion	က	7	ಬ	. 28	3,4%
œ [°]	Lea	Leadership Opportunities	က	∞	7	27	3.25
တိ	Sec	Security	က	9	വ	26	3.1%

*Based on 3 points for #1, 2 points for #2, 1 point for #3

TABLE 3 (continued)

POSITIVE FACTORS IN AN AIR FORCE CAREER (continued)

	FACTOR	NUMBER OF #1	NUMBER OF TIMES LISTED AS:	ED AS:	POINTS*	% OF POINT GRAND TOTAL
10.	Professionalism	83	7	ı	20	2,4%
11.	Way of Life	٦	4	ı	11	1,3%
12,	Educational Opportunities	1	7	ည	10	1.2%
13,	Impact on Family	ı	ı	9	9	0.7%
14.	No Positive Factors	1	- -1	-4	9	0.7%
15,	Status/Pride	ł	ı	4	4	0 . 5%
16.	Stability	1	~	1	က	0.4%
17.	No Number 3	ı	1	Ŋ	03	0.2%
18,	Leave Grand Total	139	139	139	834	0.1%

*Based on 3 points for #1, 2 points for #2, 1 point for #3

TABLE 4

NEGATIVE FACTORS IN AN AIR FORCE CAREER

	FACTOR	NUMBER OF #1	TIMES #2	LISTED AS:	POINTS*	% OF POINT GRAND TOTAL
å	Financial Matters A. Inadequate Pay and Allowances B. Eroding Benefits C. Moving Costs Sub-total of this factor	37 5 4 4	25 10 2 37	25 13 6 6	186 48 22 25	22 . 35 5 . 85 2 . 65 30 . 75
ญั	Management/Leadership A. Management Related B. Leadership Related C. Policy Related Sub-total of this factor	111 6 4 21	18 5 4 4	14 3 111 28	83 31 31 145	10.0% 3.7% 3.7% 17.4%
ကိ	Instability A. Family Disruption/Separation B. Moving Sub-total of this factor	20 24 24	12 9	12 5 17	96 35 131	11.5% 4.2% 15.7%
4.	No Control Over Assignments	15	16	10	87	10,4%
ູດ	Promotion/Advancement	o,	8	လ	48	5.8%
ê	Lack of Prestige/Appreciation	9	œ	11	45	5.4%
'	Resource Deficiencies	1	∞	7	20	2.4%
∞	The Job	က	8	က	16	1 98%
o l	Navigator Discrimination	വ	1	1	15	1.8%

*Based on 5 points for #1, 2 points for #2, 1 point for #3

TABLE 4 (continued)

NEGATIVE FACTORS IN AN AIR FORCE CAREER (continued)

FACTOR	OR	NUMBER OF #1	NUMBER OF TIMES LISTED AS:	ED AS:	POINTS*	% OF POINT GRAND TOTAL
10.	Incompetent People	2	1	က	11	1.3%
11,	PME	2	ſ	4	10	1.2%
12.	Long Hours	ı	4	ı	œ	1.0%
13.	No Number 3	1	ı	œ	ø0	1.0%
14.	Too Early Retirement	м	7	ı	7	0.8%
15,	Non-professionalism	2	ı	ı	ဖ	0.7%
16.	No Number 2	1	က	i	မ	0.7%
17.	Civilian Leadership	1	7	1	4	0.5%
18,	Non-monetary compensation	1	1	ı	က	0.4%
19,	Inequality in the Workforce	ı	ı	က	က	0.4%
20.	No Number 1	1	ı	ı	က	0.4%
21.	Spouse Requirements Grand Total	139	139	2 139	834	0.2%

*Based on 3 points for #1, 2 points for #2, 1 point for #3

TABLE 5

THE SINGLE MOST IMPORTANT ISSUE FACING THE AIR FORCE TODAY

	ISSUE	TI	MES LISTED	PERCENT
1.	Retention	J	71	51,1%
2.	Readiness	o	24	17.3%
3.	Management/Leadership	J	20	14.4%
4.	Inadequate Resources	a	18	12.9%
5.	Compensation	J	5	3,6%
6.	Singles versus Marrieds	J	1	0 7 %
	Total		139	

the number two positive factor in 1981 displacing "service to nation" into the number three position. The difference between these factors in 1981, however, was extremely close on a percentage-of-total-points basis--11.4 percent versus 10.2 percent.

On the negative side the difference is much greater and in some respects may not even be comparable owing to the different methods employed in compiling the results. Nevertheless, "Management/Leadership" was the number two negative factor in 1981, displacing "instability" to number three. Note, too, that "Eroding Benefits" is a subfactor under the number one factor in 1981, whereas it was a number two factor in its own right in 1980. As an aside, the number four negative factor, "No Control Over Assignments," would have probably moved up a notch or two if the 1981 survey had been conducted in late February or early March. This conjecture is based on the considerable amount of discontent voiced during that period by a number of officers who had not yet received firm postgraduation assignments.

In terms of the single most important issue facing the Air Force, the 1980 and 1981 lists match closely. In 1981, "Management/Leadership," however, replaced "Inadequate Resources" in the third position

Every written response to each of these questions is listed in appendix I (Positive Factors), appendix J (Negative Factors), and appendix K (Most Important Issue) There were several

reasons for compiling these lists and placing them in the study. The first is to satisfy the curiosity of any reader who might be interested in perusing the lists. The second is to provide a check on the selection process the author used to categorize each item (there will be some disagreement on how that process was accomplished). And the third is to capture the information for future research, not only for next year's survey, but in case anyone should choose to conduct a separate study along the lines of Herzberg's famous Motivation-Hygiene theory, which asserts "that the factors involved in producing job satisfaction (and motivation) are separate and distinct from the factors that lead to job dissatisfaction." (4:56)

In this latter regard, both Anderson and this author noted a striking similarity between the written responses and Herzberg's theory. Herzberg advocates that motivators are "achievement, recognition for achievement, the work itself, responsibility and growth or advancement. The dissatisfaction factors are company policy and administration, supervision, interpersonal relationships, working conditions, salary, status and security."* (4:57) It seems apparent that the factors being listed by the class of 1981 matched closely the types of factors labelled by Herzberg as motivators (positive job factors) and dissatisfiers (negative job factors). It is beyond the scope

^{*}M. Scott Myers of Texas Instruments has also conducted research in this area. (6:73-88)

of this study to further explore this finding, but a separate study using the information captured over a period of several years might be feasible.

The final question in this miscellaneous category asked respondents to rank order, from most important to least important, a list of reasons which have been frequently given by Air Force personnel as reasons for leaving the Air Force.

The 1980 and 1981 rankings were:

Factors	1980	1981
Inadequate pay and allowances	1	1
Job-caused family considerations	2	2
Civilian job opportunities	3	6
Security of future uncertain	4	5
Air Force management policies	5	4
Lack of control over assignments	6	3
Lack of enlightened leadership	7	7
Work schedule	8	8

The only significant change was the move of "Lack of control over assignments" from number 6 in 1980 to number 3 in 1981. There is little value in the listing as it pertains to the purpose of this survey, because it does not reflect how the respondents personally viewed each item as affecting their own circumstances. Rather it represents how one group (the class of 1981) felt about the opinions of another group (all others exiting the Air Force).

Category Summary

It is encouraging to note from the survey that the three most positive factors in an Air Force career are the job, the

people, and the nation—These results certainly indicate that top-quality senior officers in the Air Force like what they are doing for a living as well as whom they are doing it with and for. They also receive a tremendous amount of satisfaction in return.

Conversely, these same officers do not feel that they are receiving proper financial compensation for their chosen line of work. They are concerned about many of the management and policy issues they face on a daily basis. And they view the inherent instability of Air Force life and its impact on families as detracting factors.

It seems obvious at this writing that for the class of 1981, the enduring features of an Air Force career--job satisfaction, personal associations and the sense of importance of the job--far outweigh the negative factors. Moreover, the negative factors are being treated both internally and externally. Many new initiatives are underway including pay increases, higher travel allowances, bonuses for pilots and scientific and technical officers, MWR's "Year of the Family," and the new Office for Family Matters in the Pentagon, to name a few These efforts should combine to remove the dissatisfactions and create a very optimistic outlook for the decade of the 1980s.

CHAPTER X

CONCLUSION

The last several paragraphs of the preceding chapter more than adequately summarize the results of this survey as seen by this author. In one sentence, the retention outlook for high-quality senior officers, as represented by the AWC class of 1981, is more positive and healthier than that reported for the AWC class of 1980. This improvement is a tribute to the efforts of the senior leadership of not only the Air Force but of all the military services. We are beginning to turn the corner on the enormous retention problem which has been plaguing the Air Force, not just at the junior-officer level but at the senior level as well, and we seem to be overcoming many of the negative attitudes which have prevailed during the last several years.

Hard evidence of this improvement comes from three sources. First and foremost are the results of this survey, most particularly the shifts in opinion about leadership recorded in chapter VI and the healthy career intentions outlook seen in chapter VIII. The second is a news summary from the February 1981 Air Force magazine which stated that:

Retention of USAF pilots and navigators improved considerably last year, but officials say rated officer retention "remains one of the most important readiness issues of the 80s."

A related development pleasing authorities is the growing number of flyors delaying separation. These extensions "indicate that more pilots and navigators

will continue to remain on board if pay and entitlements continue to move toward compatibility with the civilian counterparts," Hq USAF said. (5:108)

Finally, Air Force officials have on two recent occasions revised downward the expected number of voluntary officer retirements projected for fiscal year 1981. The original estimate for all officer grades, colonel and below, was 3000. This figure was then reduced to 2600, and most recently to 2400. (2) The long-term effect of these positive signs remains to be seen. There is no doubt, however, that the retention outlook among high-quality senior officers, as represented by the Air War College class of 1981, is healthier and more promising than that indicated by the survey of the class of 1980.

APPENDIX A

ANNOTATED SURVEY

For questions 115 through 163 indicate the DEGREE to which you AGREE or DISAGREE with the statement presented by using the following scale:

	A	В	С	D	
	STRONGLY AGREE	AGREE	DISAGREE	STRONGLY DISAGREE	
		Air Force care		positive effect	
'80-	(23.9)	(51.3)	(17.9)	(6.8)	
,81-	(20.1)	(62.9)	(11.9)	(2.2)	
116.	I receive ap privileges w	propriate incre with each incre	eases in bene ase in rank.	efits and	
80-	(1.7)	(26.7)	(51.7)	(19.8)	
81-	(2.9)	(42.9)	(40.0)	(14.3)	
117. Full dental care for dependents would be a valuable incentive in retaining quality personnel.					
- 08	(34.5)	(50.4)	(14.3)	(0.8)	
81-	(50.0)	(40.0)	(10.0)	_	
118.	My career go still young	al is to make (enough to comp	0-6 and retinete in the ci	re while I am vilian job market	
80-	(19.0)	(32.8)	(41.4)	(6.9)	
81-	(14.5)	(28.3)	(42.8)	(14.5)	
119.	Senior leade depth and se	rs in the Air l riousness of th	Force are wel ne Air Force	ll aware of the retention problem	
80-	(5.1)	(42.4)	(36.4)	(16.1)	
81-	(18.6)	(56.4)	(21.4)	(3.6)	
120.	I am more in datory retir	clined to remar ement than I wa	in on active as five years	duty until man-	
80-	(2.5)	(22.7)	(40.3)	(34.5)	
81-	(6.4)	(30.7)	(41.4)	(21.4)	
	The efforts Air Force li the Executiv	of Air Force so fe are being for Branch.	enior leaders rustrated by	ship to improve Congress and	
-0ع	(23.3)	(63.8)	(12.1)	(0.9) _D	
81-	A (11.4) STRONGLY	E (58.6)	(27.9)	(2.1) STRONGLY	
	AGREE	AGREE	DISACREE	DISAGREE	

A	В	С	D
STRONGLY AGREE	AGREE	DISAGREE	STRONGLY DISAGREE
	ays been inclined atory retirement.		n active duty
Not asked i	n 1980.		
81- (6.5)	(18.7)	(51.8)	(23.0).
131. The social, better than	camaraderie aspe n they were 10 ye	ects of Air Forage ars ago.	orce life are
Not asked i	n 1980.	•	
81- (0.0)	(7.2)	(59.0)	(33.8)
132. I would end Air Force of	courage my son(s) career. (Mark ans	or daughter swer E if you	(s) to consider an have no children)
80- (3.4)	(41.5)	(41.5)	(13.6)
81- (3.9)	(50.8)	(30.5)	(14.8)
	Air Force medica n an Air Force ca		one of the major
	(50.4)		
81- (22.1)	(40.7)	(25.7)	(11.4)
134. Another processer into	omotion would haventions.	e a positive	impact on my
80- (31.7)	(44.2)	(20.0)	(4.2)
81- (43.6)	(38.6)	(15.7)	(2.1)
135. In my most commensurat	recent assignmer te with my rank a	nts, I have be and responsible	een given authority ility.
80- (21.7)	(56.7)	(15.8)	(5.8)
81- (25.7)	(49.3)	(17.9)	(7.1)
to manage i	in a period of ra	ipid technolog there is a n	me more difficult gical change and eed for more cen-
80- (0.8)	(4.2)	(63.0)	(31.9)
81- (0.0)	(10.0)		(29.3)
to make the	nd it relatively e Air Force a car	easy to motiv	vate young officers
80- (0.0) 81- (1.4) A	(12.6) (13.6) B	(62.2) (67.1) C	(25.2) (17.9) D
STRCNGLY AGREE	AGREE	DISAGREE	STRONGLY DISAGREE

DISAGREE

AGREE

STRONGLY

DISAGREE

STRONGLY

AGREE

	A	B	С	D		
	STRONGLY AGREE	AGREE	DISAGREE	STRONGLY DISAGREE		
	strong social ation is a maj			in an organi-		
	Not asked in	1980.				
81-	(30.7)	(53.6)	(15 .0)	(0.7)		
C:	hile my family areer, they we omparable adva ingle)	re no greater	than those			
80-	(4,3)	(18.8)	(46.2)	(30.8)		
81-	(7.5)	(27.6)	(38.1)	(26.9)		
148. Increased assignment stability would have a positive effect on Air Force organizations and personnel.						
80-	(15.7)	(69.6)	(13.9)	(0.9)		
81-	(20.0)	(68.6)	(11.4)	(0.0)		
	romotion to 0- chieve it.	7 is well wor	th the time	and effort to		
	(2.6)					
81-	(9.4)	(36.2)	(43.5)	(10.9)		
	he current ins s conducive to			the Air Force essionals.		
80-	(0.8)	(24.6)	(62.7)	(11.9)		
81-	(1.4)	(37.1)	(52.1)	(9.3)		
	he Air Force d enior officer			problem in its		
	Not asked in	1980.				
81-	(2.9)	(13.7)	(53.2)	(30.2)		
152. Mo	ost career irr eadership at t	itants can be he wing level	resolved by and below.	effective		
80-	(2.5)	(14.2)	(63 . 3)	(20.0)		
81-	(2.2)	(19.4)	(51.F)	(26.6)		
	n Air Force ca n society toda		pealina empl	oyment option		
80- 81- 154. I	(0.0) (1.4) have always b Not asked in 1	(25.8) (29.3) een inclined 1980.	(62.5) (55.7) to retire wh	(11.7) (13.6) en first eligible.		
81-	(1.45	(18.6)	(62.4)	(17.1)		
	STRONGLY AGREE		DISAGREE	LTRONGLY DISAGREE		
		1		د د د د د د د د د د د د د د د د د د د		

STRONGLY AGREE	AGREE	DISAGREE	STRONGLY DISAGREE
155. My overall impr that they provi	ession of Air de positive a	Force generand effective	ral officers is e leadership.
80- (0.0)	(48.3)	(44.0)	(7.7)
81- (3.6)	(70.7)	(20.7)	(5.0)
156. During my caree were those with sense of camara	high esprit	and morale,	and a strong
Not asked in	1980.		
81- (47.1)	(44.3)	(8.6)	(0.0)
157. I would go PCS children's educ answer E if sin	ation and/or	l rather than my wife's ca	n disrupt πy ureer. (M a rk
80- (9.6)	(35.7)	(44.3)	(10.4)
81- (16.7)	(28.0)	(44.7)	(10.6)
158. My overall pay tirement system similar respons	, are compara	ble to those	
80- (0.0)	(9.2)	(43.3)	(47.5)
159. Most of the cen	is the resul	nd micro-mar t of demands	
80- (25.4)	(40.7)	(29.7)	(4.2)
81- (5.8)	(42.4)	(40.3)	(11.5)
160. During the past wife and I have and the civilian	turned more n community f	and more to	civilian friends
ρ1- (14.7)	(36.0)	(41.2)	(8.1)
161. Retention of qua			
Air Force today 80- (53.8)		(4.2)	(0.0)
81- (59 ₃ 3)	(37 ₁ .9)	(2.1)	(0.7)
STRONGLY AGREE	AGREE	DISAGREE	STRONGLY DISACREE

В

A

С

D

		Α	В	С	D	
	Ş	STRONGLY AGREE	AGREE	DISAGREE	STRONGLY DIBAGREE	
162.					career has ma	
		(4.3)		(41.4)	(3.4)	
	•	11.4)	• • •	(34.3)	(2.1)	
	ten int	ernal proble	ractive job ms within th	market than e Air Force	a reflection	of
		(0.0)	(12.7)	(63.6)	(23.7)	
		(2.1)	(12.9)	(59.3)	(25.7)	
consi	der		riate and ma		ngle response esponding lett	
164. 80	Whi	ch of the fo	llowing best	describes	your career in	
	Α.	I will stay	on active du	ty as long a	as I can.	$(\frac{81}{7.9})$
(17.9)	В.	I am undecid duty as long		ll probably	stay on activ	e (19.3)
(48.7)	C.	duty past in		ment eligib	remain on act ility, but wil	
(17.1)	D.		ed, but I wi letion of my		retire at 20 mmitment.	years (14.3)
(11.1)		I will retir present comm		s or upon c	ompletion of m	y (6.4)
165.	λЯ	career goal	is to achiev	· _		
	Α.	Lieutenant C	olonel	(only $\frac{80}{G.C}$.	(0.7)	
	В.	Colonel		pct. avai: from 1980		
	c.	General offi	cer	(55.6	(47.1)	
	D.	I'm not sure	at this time	e.	(13.6)	

166.	Which of the following wou pilet or navigator in a fl	ald you prefer if you were a
	A. A 20 percent increase i	n flying hours 27.8 (of those rated)
	B. A 20 percent increase i flight pay)	n pay and allowances (including 72.2% (of those rated)
	C. I am nonrated.	120047
167.	Which of the words listed the blank to describe your	below most appropriately fits in situation?
	"I am cond	erned about making financial ends
	A. Always (23.6)	
	B. Usually (30.7)	
	C. Sometimes (32:1)	
	D. Seldom (11.4)	
	E. Never (2.1)	
168.	Which of the phrases liste personally view the recent	d below best describes how you increases in pay and allowances?
	A. Far more than enough	(0)
	B. More than enough	(0.7)
	C. About right	(16.4)
	D. Less than adequate	(66.4)
	E. Far less than adequate	(16.4)
169.	Which of the phrases liste think the recent increases in improving Air Force-wid	d below hest describes how you in pay and allowances will aid e retention?
	A. Help a lot	(5.0)
	D 11 2	/ - \

B. Help some (70.7)

C. Neutral impact (10.0)

D. No help; it will take some more (11.4)

E. No help; a lot more is necessary. (2.9)

- 170. Assuming there is a trade-off between the following items, which do you think is most important to the Air Force?
 - A. Increasing the retention of experienced senior officers. (22.9)
 - B. Maintaining a healthy promotion opportunity and flow through the field grade ranks.
 (77.1)
- 171. In your opinion, which of the following has the most bearing positive or negative, on retention.
 - A. External factors, such as the civilian job market. (25.0)
 - B. Internal factors, such as Air Force policies and procedures. (75.0)
- 172. Not counting your military pay and allowances, which of the following best describes the amount of before taxes income which you and/or your wife receive? Be sure to include interest, dividends, investment income, other wages, etc. (Note: if your wife is here with you and she worked before you came to school and will work at your next duty location, please include her past or projected earnings even though she may not be working while she is here.)
 - A. Less than \$1,000 annually (15.7)
 - B. \$1,000 to \$3,000 annually (18.6)
 - C. \$3,001 to \$5,000 annually (9.3)
 - D. \$5,001 to \$10,000 annually (15.7)
 - E. \$10,001 to \$20,000 annually (8.6)
 - F. \$20,001 to \$30,000 annually (10.7)
 - G. Greater than \$30,000 annually(21.4)
- 173. What is your current grade?

wild 15 your outlone plane.	<u>80</u>	<u>81</u>	
A. Colonel	(20.6)	(36.4)	(1,5,5)
B. Lt Col (Colonel selectee)	(39.6)	(9.3)	(45.7)
C. Lt Colonel	(60.3)	(54.3)	

- 174. What is your date of rank, <u>year only?</u> (data not used in 80+ not asked survey analysis)
 A. 1976 B. 1977 C. 1978 D. 1979 E. 1980
- 175. What is your present age?

A. 36-39	B. 40-42	C.43-45	D. 46-49	E. ?
A. 36-39 80- (20.6)	(60.3)	(15.7)	(3.3)	- ·
81- (25.0)	(47.1)	(17.9)	(7.9)	(2.1)

```
176. How many years of service do you have for retirement?
(1851) (2000)A. 21 or more
                                C. 16-18
                                                 (47.9) (47.9)
                                                  (4.1) (6.4)
                                D. 15 or less
(29.7) (25.7)B. 19-20
        177. In what year were you commissioned?
             198⊈ data only
                                                     G. 1965
(3.6)
                                        E. 1963
             A. 1959 .... C. 1961
                                                                  I. Other
                 (9.4)
                                           (19.4)
                                                                     (0.7)
                              (18.7)
                                        F. 1964
                                                     н. 1966
             B. 1960
                           D. 1962
                                           (14.4)
                              (14.4)
                (15.8)
        178. What is your aeronautical rating?
           80- (41.3)
                                                  (38.0)
                               (20.6)
             A. Pilot
                            B. Navigator
                                                  Nonrated
           81 - (45.0)
                               (19.3)
                                                  (35.7)
        179. What is your source of commission?
  80
         81
                                                    (14.0) (10.0)
                             C. Service academy
(47.1) (55.0)A. ROTC
                                                    (21.5) (18.6)
(17.3) (15.7)B. OTS
                             D. Other.
        180 through 187. The following are often given as reasons for
            separating from the Air Force. From your own experience in
            dealing with Air Force personnel and working the retention problem, rank these reasons from the most important/fre-
            quent (1) to the least important/frequent (8). Put the
            letter of the most important factor in answer number 180.
            Continue down the list until the least important factor
            is in answer number 187
                                                        <u>80</u>
             A. Lack of enlightened leadership
             B. Air Force management policies
                                                         5
             C. Inadequate pay and allowances
                                                         1
             D. Security of future uncertain
             E. Lack of control over assignments
                                                                3
             F. Job-caused family considerations
                                                                2
             G. Work schedule
                                                                8
             H. Civilian job opportunities
                                                                6
        188. What should be the active duty service commitment for
             promotion to colonel?
Not asked in 1980
                          C. 2 years
                                           E. 4 years (6.6)
             A. None
                (8.1)
                              (57.4)
                                           F. 5 or more years (1.5)
                              3 years (14.0)
             B. 1 year
                (12.5)
```

Questions 189 through 192 require written answers. After you have completed this portion, remove this last page and place it, along with the scored answer sheet into the large envelope which was used to forward the survey to you. Place the large envelope containing these two items in the student evaluation box in the lounge area. Please do not fold or staple the scored answer sheet.

189. What percentage increase would you apply to your pay and allowances in 1981, over and above a cost of living increase, to provide a strong incentive for career officers to remain on active duty until within two years of mandatory retirement? (Note: consider your tax bracket in formulating your answer.)

17.4 percent (mean)

percent

14.5 percent (median) 20.0 percent (mode)

- 190. What, for you, are the three most positive factors in an Air Force career?
 - 1. The job, the work (includes eight sub-categories)
 - 2. The people

(In the 1980 survey, numbers two and three

were reversed)

- 3. Service to nation
- 191. What, for you, are the three most negative factors in an Air Force career?
 - 1. Financial matters (includes three sub-categories)
 - 2. Management/Leadership (includes three sub-categories)
 - 3. Instability (includes two sub-categories)
- In 1980, instability was #2 and benefits was #3
- 192. What is the single most important issue facing the Air Force today?

 Retention (in both 1980 and 1981)

Thank you very much for taking the time to complete this questionnaire. Remember, place both this last page and the scored answer sheet into the large envelope and put the envelope in the student evaluation box in the lounge.

APPENDIX B

SPSS t-test RESULTS

	ا رق				SEPARATE	VARIANCE ES	ESTIMATE
VARIABLE	VARIABLE NUMBER OF CASES	!	STANDARD DEVIATION	STANDARD ERROR	VALUE	DEGREES OF FREEDOM	2-TAIL PROB.
Q115 POSI GROUP 1	POSITIVE FAMILY	EFF	0.832	0.077			
GROUP 2	134	1.9627	0.642	0.055	1.20	216.83	0.230
0116 BENES	INCREASE	WITH HEAT					
	9 L	7.8966	0.727	190° 0	* 2.58	248.47	0.011
GROUP 2	140	2.6571	0.756	790-0			
0117 DEP	DEPENDENT DENTAL C						
GROUP 1	119	1.81,1	0.701	0.064	2.52	245.73	0.012
GROUP 2	140	1.6000	0.666	0.056			
0-0	CAREER GOAL						
GROUP 1		1295-2	0.869	0.081	4-1	10 876	7 140 0
GROUP 2	138	52725	0.911	0.078			
0119 RETENT	10				***		
GROUP 1	118	2.6356	0.813	0.075	15.51	238.08	000
скоп		2.1000	0.733	290°0			
9120 MAAN	DATORY	RETIREMENT			**		1 1 1 1
GROUP 1	119	3.0672	0.821	0.075	** 2 74	25. 17	0.006
GROUP 2	140	98//-2	0.857	0.072	;		
0121 FRU	STATED BY			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	**		
GROUP	116	1.9052	0.618	0.057		02.030	000
GROUP Z	120	7.2071	799.0	0.056		45.05.2	

		EO	2.				SEPARATE VARIANCE E	ESTINATE
VARIABLE	3LE	NUMBER OF CASES	MEA	¥ 1	0 &	VALUE	DEGREES OF FREEDOM	2-TAIL PR08.
0122	0122 RETENTION MORE	RETENTION MORE	TALK			· · · · · · · · · · · · · · · · · · ·		
l	GROUP 1	119	į.	0.598	0.055	-1.85	255.42	0.065
	GROUP 2	140	3.6714	0.651	0.055			
0123	MOTIVATE NC	ATE NCOS	2.9292	0.623	0.059			
1	GROUP 2	139	2290*8	209.0	0.051	-1.74	236.61	0.083
9124	11 4	MONEY						
ĺ	GROUP T	Ь.	o.	. p	.0	, r		000
•	GROUP 2	139	3.1871	0.830	0.070	62.62	138.00	0.000
9125	CENTRALIZED GROUP 1 117	•	MANAGEMENT 2.3419	0.779	0.072			
	GROUP 2		2.1533	0.726	0.062	6 6 7	239.63	0.048
9126	FRUSTRATED GROUP 1	RATED 118	2.2627	0.745	0.069			
	GKOUP 2	140	5.4429	0.681	850.0	5 2 4 4 4	259.00	0.045
0127	ADEQU	DEQUATE COMPENSAT	NSATION					
	GROUP" 1	_	M	0.662	0.000	76 -	267 66	7.6
,	_	140	3.2714	0.677	0.057	9		*13°0
9128	SENIOR	11 3	1 91	LIFE				
	GROUP 1	119	2.8067	0.628	0.058	* 7.51	246.88	000.0
	GROUP 2	140	2.2286	. 709 0	0.051	· · · · · · · · · · · · · · · · · · ·		

VARIABLE	,	NUMBER Of CASES		STA	0 %	* VALUE	DEGREES OF FREEDOM	2-TAIL PROB.
9210	WIFE OUP 1	WORKS 115	1.9652	0.805	0.075			67. 6
!	GROUP 2	132	2,1212	0.856	0.075	; ; ;) C • C • 2	
9130	MANDATORY	REQUI	1 5				6 0 0 0 0 0 0 0 0 0 0 0	
	GRÖUP' 1	0	٥.	0.	0.		0000	6
	GRÔUP Z	139	2.9137	0.821	0.070			
9131	SOCIAL	ASP				1 1		
	GROUP 1	0	0.	•0	•0		00000	0
	GROUP 2	139	3.2662	0.585	0.050	00.00	00.00	000
0132	0132 ENCOURAGE	RAGE KIDS				*		
	GROUP 1	118	2.6525	0.755	0.070		27 270	672 0
i	GROUP 2	128	2.5625	0.791	0.070		07-6-2	2000
0133	MEDICAL	AL CARE						
1	GROUP 1		5.2269	0.838	0.077		1 3	72.0
1	GROUP 2	140	2.2643	0.934	0.079		u	10.0
0134	PROMOT	PROMOTION INPACT						
	- 400x9	021	1.966/	628.0	9/0.0	2.00	248.02	970-0
	GROUP 2	140	1.7643	0.792	0.067		'	
0135	0135 AUTHORITY C	OMME	NSURATE WI	WITH RANK				
	GROUP 1	1.20	2.0583	0.781	0.071		26 736	2 30 0
	GROUP 2	140	2.0643	0.850	0.072	90 • 0 •	67.962	

		! •				SEPARATE	VARIANCE	ESTIMATE
VARIABLE	. 1	NUMBER OF CASES	BEAN	STANDARD	STANDARD *	VALUE	DEGREES OF FREEDOM	2-TAIL PR08.
0136	MORE OUP 1	CENTRALIZATION	2.260	7250	0.053			
	GROUP 2	140	3.1929	665*0	0.051	0.93	253.22	0.355
0137	GROU	MOTIVATE YOUNG	OFFICERS 3.1261	0.604	0.055			
	GROUP 2	140	2-1	0.611	* 250.0	1.48	251.21	0.141
0138	0138 SUPERVISORS EMPHASIZE	ISORS EMPHAS	HASIZE SOCIA	IAL				:0 :0 :0 :0 :0
,	GROUP 2	140	. L .	0.800	990.0	-37.07	139.00	000°0
9139	0139 EARLIER RETIREMENT 6ROUP T 118	R RETIREMENT	ENT 2.9915	0.734	0.068			
1	GROUP: 2	1.40	3.1071	0.785	* 590.0	-1.24	251.75	0.217
9140	4140 RECEPTIVE TO SUGGES	IVE TO SU(SUGGESTIONS 2.5929	069°0	0.005			
1	GROUP 2	137	2,9942	0.679	* 850.0	2.28	237.61	0.023
0141	2141 RETIRE WHEN ELI GROUP 1 118		61BLE 2.3051	0.822	0.076			
r	GROUP 2	140	- 5.5000 -	0.835	0:071	-1.88	549.96	0.061
0142	ASSIGNMENT GROUP 1 111	SSIGNMENT STABILIT	ILITY 2:3220 -	0.727	* 790.0			8
•	GROUP 2	140 -	2:3286	0.772	* = \$90.0	-0.07	252.89	0.944

						SEPARAT	SEPARATE VARIANCE ESTIMATE	STIMATE
VĀRĪĀBĒĒ	J.E	NUMBER OF CASES	MEAN	STANDARD DEVIATION	۵	VALUE	DEGREES OF FREEDOM	2-TAIL PROB.
0143		AF BENES			*			
	GROUP 1	120	3.5667	0.576	0.053 *	1.44	257.71	5.151
	GROUP 2	071	3.4571	0.650	* \$50.0			
9144	FAMILY CONTINUE	ļ!	CAREER					
	GROUP 1	112	2.4821	0.838	* 640 0	1.57	220.89	2.117
	GROUP 2	133	2,3233	0.724	0.063 *]	
9145	MEDIC	AND DENT		 	8 * 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8			
	GROUP 1	113	2.5575	0.916	* 080°0	-1.49	238.96	0.137
	GROUP 2	132	2.7348	076.0	0.082 *	ļ		
0146	SOCIA	FOR RET	ENTION					
ı	GROUP 1	D	0	•0	* *	-32.10	139.00	000 0
	GROUP 2	021	1.8571	0.685	* 850°0			
9147	FAMILY	11 8	li .			9		
<u> </u>	GROUP	117	3.0342	0.819	* 9/0°0	1.75	248.73	0.081
	GROUP 2	134	5.8455	0.908	78			
0148	A S S I GN	ASSIGNMENT STABILITY	LITY		4			
	2000	2	0000.			1.20	239.74	0.232
	GROUP 2	140	1.9143	0.556	* 750.0			
9149	PROMOTION	TION TO 0-7		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6			
	GROUP 1	-	2519:2	0.705	0.065	1.24	252.83	0.218
	GROUP 2	138	2.5580	0.811	0.069			

					•		SETANAIE VANLANIE E	3 444 63
~	ABLE NUMBER OF CASES		MEAN	STANDARD DEVIATION	STANDARD *	VALUE	DEGREES OF FREEDOM	Z-TAIL PROB.
0150	PROFE GROUP 1 GROUP 2	2			. 0.057	2.05	252.89	0.041
		- 10	1		* 0000000000000000000000000000000000000			
0151	RETENTION Group 1	TION PROB WIT	H SR	OFFICERS 0.	* * *	-49.58	138.00	00000
	GROUP 2		3,1079	0.739	TO . D63			
9152	A152 CAREER GROUP 1	R IRRITANTS	3.0083	0.667	. 0.061			
1	GROUP 2	139	3.0288	0.742	*	.23	256.55	0.816
9153	APPEALING GROUP 1	APPEALING CAREER GROUP 1 120	2.8583	0.598	0.055	1	16	10 '
	GROUP 2	140	2.8143	729.0	*	0	000-100	0.577
0154	RETIRE	e 0	0	0	• • 0			
	GROUP 2	140		0.645	#	-54.29	139.00	0.000
9155	IMPRE GROUP 1	I MPRESSION OF GENE	1ERALS 2.5948	289.0	* 650°0	7[7	241.78	000
:	GROUP 2	1 40	2.2714	0.610	* 250°0			
0156 GR	BEST OUP T	ORGANI ZATION	0	0	*			
		140		129.0		-29.78	139.00	000 0

						SEPARATE	VARIANCE	ESTIMATE
RIA	VARIABLE NUMBER OF CASES	1 1	1 1	STA	STANDARD +		DEGREES OF	2-TAIL PROB.
9157	UNACCC GROUP 1	יטי	. 2	0.808	0.075			
	GROUP 2	132	7.4924	0.895	* 840.0	0.59	244.69	0.55
0158	PAY GROUP 1	COMPARABILITY 120	3.3833	0.651	* 650.0			
,	GROUP 2	140	3.3429	0.707	* 090 0	87° 0	256.70	0.63
0159	0159 CENTRALIZATION GROUP 1 118	CENTRALIZATION BY	CONGRESS	£78°0	0.078			
		139	2.5755	0.771	* \$90.0	-4.42	239.67	0.00
0160	CIVILIAN GROUP 1	AN FRIENDS	0.	0	***************************************			
.)	GROUP 2	136	2.4265	0.840	. 0.072 *	-33.69	135.00	0.00
0161	RETENTION O	FOUA	LITY T.5042	0.580	0.053			
1 1	GR 00	140	1.4429	625.0	*	0.85	250.08	0.397
0162	OWN GROUP 1	MOTIVATION 116	2.4397	0.636	* 650.0		0 0 0 0 0	
	GROUP 2	140	2112-5	0.687	# 850°0	2.03	250.86	0.043
0163	RETEN GROUP 1	T I ON	3.1102	965.0	# \$50 <u>.</u> 0	0 0 0 1 1 0 0		
	GROUP 2	140	3.0857	0.684	0.058	0.31	255.70	0.754

						SEPARATE	VARIANCE ESTIMATE	STIMATE
RIA	VARÍABLE	NUMBER Of CASES	MEAN	STANDARD DEVIATION	STANBARD	TVALUE	DEGREES OF FREEDOM	2-TAIL PROB.
0164	CAREER GROUP 1	R INTENT	3,1111	866.0	260.0			
	GROUP 2 140	140	2.9214	256*0	0.081	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	742.54	0.123
9165	CAREER GROUP 1	R GOAL 115	2.4000	0.825				
	GROUP 2	140	-2:7357	0.695	6\$Q-Q		223.47	100.
9166	RATING PREFRES	S PREFRES						
	SROUP 2	0	U.	•0	* 0	-36.19	139.00	0.000
ļ		•	,	•				
9167	Q167 FINANCIAL GROUP 1	0	0	0	• 0			
	GROUP 2	140	2,3786	1.035	*	-27.19	139.00	00000
0168	PAY INGROUP 1	CREASES 0	0	0	*			
	GROUP 2	140	3.9857	0.009	* 150.0	-78.65	139.00	00000
0169	0169 PAY VS GROUP 1	RETENTION O.	0		*			
	GROUP 2	140	2,3643	0.858	* 0.073	-32.59	139.00	0.000
0170	RETENTION GROUP 1	ION VS PROMOTI	MOT I ON					
	GROUP 2	140	1.7714	0.421	* 0:030 *	72-67-	139.00	00000

APPENDIX C

FINANCIAL CONSIDERATIONS CROSSTABS

*		PAGE																
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0.03586 WITH G124 DEPENDENT. 0.12195 WITH G124 н 0.0285 **DEPENDENT**. SIGNIFICANCE = DEPENDENT. 9.06345 WITH 3 DEGREES OF FREEDOM LAMBDA (ASYMMETRIC) = 0.12500 WITH 0173 CHAMER'S V = 0.25535 CONTINGENCY COEFFICIENT = 0.24741 LAMBDA (SYMMETRIC) = 0.12329 © CHI SQUARE

UNCERTAINTY COEFFICIENT (ASYMMETRIC) = 0.05918 WITH 0173 UNCERTAINTY COEFFICIENT (SYMMETRIC) = 0.04466 0.2471 0.05494 SIGNIFICANCE = 0.06211 SIGNIFICANCE = KENDALL'S TAU C = KENDALL'S TAU B =

SOMERS.S D (ASYMMETRIC) = 0.04829 WITH 0173 0.09554 GAME'A =

= 0.00051 WITH 0124 DEPENDENT. 0.4977 DEPENDENT. PEARSON'S R =-0.00050 SIGNIFICANCE 0.05448 SOMERS'S D (SYMMETRIC) = ETA = 0.25535 WITH 0173

DEPENDENT.

U.U6250 WITH W124

16

DEPENDENT.

NUMBER OF MISSING OBSERVATIONS =

FILE LEE (CRE	CREATION DATE	= 02-10-81	81)					
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	167					Š		
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101AL	23.6	30.7	32•1	11.4	2.1	100.0		
CHI SQUARE = 24.	24.79574 WITH 0.42085	4 DEGRE	EGREES OF FREEDOM		SIGNIFICANCE	E = 0.0001		
Y COEF	TENT =	0,38790						
LAMBDA (ASYMMETRIC)	= 0.32813	3 WITH Q173	-	DEPENDENT.	68	0.12632 WITH	0167 DEPENDENT.	•
COEFFIC	•	(ASYMMFTRIC) =	0.14108	WITH 0173		DEPENDENT.	- 0.06957 WITH D167	0167
1		(SYMMETRIC) =	0.09318	,	1			
L'S TAU B	-0.29059	SIGNIFIC	FICANCE = 0	0.0001			1	
RENDALL'S TAU C ≡ GAMMA ≡	-0.45061	SIGNIFIC	11	0.0001				
اما	RIC) = -0.	-0.23908 WITH	WITH 0173	DEPENDENT.	T.	= -0.35321 WI	WITH U167 DEPE	DEPENDENT,
42085 WITH	20,	= -0.28515 73 DEPENDENT.	,	= 0.28876	WITH	Q167 DEPENDENT.	•	
FEAKSON'S K ==0.28876	0	ICANCE =	0.0003					

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COLUMN		Z6. 18.6	13 9.3	22	12 8.6	15	30	140	
O CHI SQUARE = 12.62925 CRAMER'S V = 0.30035	.62925 WITH 30035	Q	DEGREES OF FREEDOM	:	SIGNIFICANCE	н	0.0493		
CONTINGENCY COEFFIC	CIENT = 0) = 0.20313	0.28765 13 WITH 0173	1	DEPENDENT.		= 0.0272	0.02727 WITH 0172	<u>.</u>	DEPENDENT.
A (SYMME) KILL TAINTY COEFFI TAINTY COEFFI LL'S TAU B =	• 00	METRIC) = SETRIC) = SIGNIFIC SIGNIFIC	A A S	0.06791 WITH Q173 .03623 CE = 0.1901 CE = 0.1901		DEPENDENT.			0.02471 WITH G172
	TRIC) = -0 RIC) = -0. H G173	= -0.05013 WIT = -0.06310 3 DEPENDENT	I •	DEPENDENT. = 0.06316	NT. 316 WITH 0172	18	-0.08512 WITH DEPENDENT.	WITH G172 ENT.	DEPENDENT,
PEAKSON'S K #-U.00310	Ì	FICANCE =	0.2292	***************************************					

	•						OII6 UEPENDENT. = 0.05777 WITH UII6
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CKEATION DATE = UZ-10-81)

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2177 YEAR COMMISSIONED BY Q168 PAY INCREASES VERENTION UNIE - UC-IC-UIL

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RAW CHI SA	UARE
CRAMER'S V	= 0.31685
CONTINGENCY	ENCY CORPLICIENT = U.40111 (ASYMMETRIC) = 0.05455 WITH 9177 DEPETIDENT. = 0.08889 WITH 9163 DEPENDENT.
LAMBDA (S)	25790*
UNCERTAINTY	COEFFICIENT (ASYMMETRIC) = (
UNCERTAINTY KENDALL'S T	IN COEFFICIENT (SYMMETRIC) = U.U9165 TAU B = -0.10088. SIGNIFICANCE = 0.0812
	. 15236
SOMERS	(ASYMMETRIC) =
SOMERS'S	DEPENDENT
RSON	=-0.14206 SIGNIFICANCE = 0.0489
NUMBER OF	MISSING OBSERVATIONS = 3

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TOTAL	2.9	42.9	0.04	20	100.0		
SOUARE		WITH	6 DEGREES	OF FREEDOM	. SIGNIFICANCE =	90000	
CKAMER'S V = 0.29413 CONTINGENCY COEFFICIENT		38					
LAMBDA (ASYMMETRIC)	[= 0.07792	792 WITH 0178		DEPENDENT	IM 00571.0 =	WITH DI16 DEFENCENT.	ENI.
< <	CIENT (SYN	METR I ETR I C	= 0.08347 0.08096	WITH OLTB	8 " DEPENDENT.	= 0.07860 *:1	*:TH 0116
KENDALL'S TAUBETE GAMMA = _0.00962	-0-00628	SIGNIF	NIFICANCE"=	0.4672			
515	11		WITH 0178	DEPENDENT	lt •	-0.00629 WITH 0116 DE	CEPENDENT.
221			•	= 0.30	0.30624 WITH 0116 DEPE	DEPENDENT.	
PEAKSON'S R ==0.02606		SIGNIFICANCE =	0.3800	1			

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RAW CHI S	= 34 nc:	16.51428	3	8 DEGRE	REES D	F FREEDOM	٠,	IGNIFICANCE	7520 0 =		
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LAMBDA (S	SYMMETAIL) 		8/18	DEPE	DEPENDENT.		= 0.10526	WITH 0167	DEFEUDETT.	
IV	COEFFI	1	(ASYMMETRIC)	.0 .	5943 4	05943 WITH 0178	:	DEPENDENT.	(£770°0 =	Э ытти 0167	~
		D. 06651.	SIGNI	FICANCE =	1	0.1838	•				
" \s	-	= ()1	W 62179 M	1TH 0178	* C	DEPENDENT	NT.	1	TOTATION WITH WICZ	DEPENBERT.	
ETA = 3.	26 99 WITH	417	w	•	Ĉ	= 0.05	O.05968 WITH 0167	9167	DEPENDENT.		
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	COLUMN	31.22.1	40.7	36	11.4	140		
RAW CHI CRANER S	RAW CHI SQUARE = 12. CRANER'S V = 0.21291) E 6 9	1 1 3	6 DEGREES	OF FREEDOM.	OM. SIGNIFICANCE	NCE = 0.0482	
CONTINGE LAMEDA 1	ENCY COEFFICE	IENT = 0.2	0.28832 390 WITH 01	0178 DE	DEPENDENT.	•0 =	WITH G133	DEPENDENT.
4444	MME (R) (Y) COEFF Y COEFF TAU B = TAU C =	ICIENT (ASYMMETR) ICIENT (SYMMETR) 0.02656. SIC 25,95894. SIC	O CS	= 0.04654 0.04153 ICANCE = 0	0.3605 0.0000	8 DEPENDENT.	11. = 0.03749	749 WITH J133
SOMERS S	0 (AS) 0 (SY) 0 (SY)		= 0.02515 WITH = 0.02652	H 0178	DEPENDENT.	NT.	0.02806 WITH 0133	DEPENDENT
PEARSON.			プロドロコントコー・	•	0000	I	フロアのジントン・	

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0143

AF BENES

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1	COLUMN	2 1.4	4.3	5841.4	7 <u>4</u> 52.9	140 100•0		
CHI SQUARE = CRAMER•S V = CONTINGENCY LAMBDA (ASYM	22. 0.2 COEFFIC	4 WITH = 000 1176	9 DEGREES 0.37464 5.WITH Q127	5 OF	FREEDOM S DEPENDENT.	SIGNIFICANCE	NCE = 0.0065 = 0.13636 WITH G143	DEPENDENT.
4411	TY COEFFIC TY COEFFIC TAU B = TAU C =	CIENT (ASYMMETR CIENT (SYMMETR) 0.31981 SIG 0.24000 SIG	CIC) CO SNIF	0902 9424 = =	5 WITH 0127 0.0000 0.0000		DEPENDENT. = 0.	0.09859 with 0143
S S	S D (ASYMMETRIC) S D (SYMMETRIC) = 0.32392 WITH Q127	0 18N	0.32910 WITH 0127 0.31968 DEPENDENT.	0.0001	DEPENDENT. = 0.34031		= 0.31078 with 6143 WITH 6143 DEPENDENT.	.43 DEPENDENT

FILE

*****	<i>⊁</i> ⊢ 1	* * * * PAGE
***** 11 0	PAY COMPARABILITY	*****
CROSSTABULATION OF	BY 0158	*****************
*	0127 ADEQUATE COMPENSATION	**********

3 CO	101AL	1.5		9° 8	72	* •	54 38•6		140	100•0
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60	2.1	0	0.1	25.0 I	11 1	68.8 7.99 I	3.7	12.5 1 1.4 I	16	11.4
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0-13294 WITH G158 CEPENDENT. 0.28378 WITH 0158 0.0000 DEPENDENT. 10 SIGNIFICANCE 11 0.13604 WITH Q127 0.13447 DEPENDENT. 00000.0 9 DEGREES OF FREEDOM SIGNIFICANCE = SIGNIFICANCE = LAMBDA (SYMMETRIC) = 0.29412 WITH 0127 LAMBDA (SYMMETRIC) = 0.28873 UNCERTAINTY COEFFICIENT (ASYMMETRIC) = UNCERTAINTY COEFFICIENT (SYMMETRIC) = 0.47874 41.62769 WITH 0.41946 CONTINGENCY COEFFICIENT = 0.31482 KENDALL'S TAU B = KENDALL'S TAU C = CRAMER'S V

DEPENDENT. 0.41251 WITH 0127 0.41940 SOMERS'S D (ASYMMETRIC) = SOMERS'S D (SYMMETRIC) = 0.64785 GAMMA =

0.32939

0.45882 WITH 0158 11 000000 DEPENDENT. SIGNIFICANCE = 0.42768 WITH 0127 PEARSON'S R = 0.40528

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0.42653 WITH Q158

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9 DEGREES OF FREEDOM SIGNIFICANCE = 0.0162	3 DEPENDENT.	0.05963 WITH G133
WITH	ENT = 0.36506 = 0.07595 WITH Q13	ENT (ASYMMETRIC) =
CHI SQUARE = 20.29642 CRAMER'S V = 0.22639	OEF ETR TRI	UNCERTAINTY COEFFICIENT (ASYMMETRIC) = 0.05963 WITH G133

UNCERTAINTY COEFFICIENT (ASYMMETRIC) = 0.05963 WITH Q133 UNCERTAINTY COEFFICIENT (SYMMETRIC) = 0.05963 KENDALL'S TAU B = -0.27006 SIGNIFICANCE = 0.0001 KENDALL'S TAU C = -0.25543 SIGNIFICANCE = 0.0001

= -0.27028 WITH 0145 DEPENDENT. 0.32440 WITH 0145 DEPENDENT. SOMERS'S D (ASYMMETRIC) = -0.26985 WITH Q133 SOMERS'S D (SYMMETRIC) = -0.27006 ETA = 0.29913 WITH Q133 DEPENDENT. -0.37130 GAMNIA =

DEPENDENT.

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0.05748 WITH 0172 DEPENDENT. 0.07339 WITH U172 SIGNIFICANCE = 0.0628 DEPENDENT. n i 0.09546 WITH 0124 DEPENDENT. 27.95135 WITH 18 DEGREES OF FREEDOM 0.25890 0.1181 0,1181 0.07176 SIGNIFICANCE = SIGNIFICANCE = SOMERS'S D (ASYMMETRIC) = -0.07304 WITH 0124 LAMBDA (ASYMMETRIC) = 0.21951 WITH 0124 LAMBDA (SYMMETRIC) = 0.21951 WITH 0124 UNCERTAINTY COFFERMENT UNCERTAINTY COEFFICIENT (ASYMMETRIC) = UNCERTAINTY COEFFICIENT (SYMMETRIC) = -0.08357 -0.08198 KENDALL'S TAU B = CRAMER'S V = " CHI SQUARE

DEPENDENT

= -0.09561 with ul72

DEPENDENT.

0.11340 WITH 0172

DEPENDENT.

NUMBER OF MISSING OBSFRVATIONS =

SOMERS.5 D (SYMMETRIC) = -0.08282 ETA = 0.22523 WITH 0124 DEPENDENT.

PEARSON'S R ==0.10157 SIGNIFICANCE =

0,1171

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ا ا ا	4°	3 6	00		- L Z II	0.03062 WITH 0173 .02586 CE = 0.0159 CE = 0.0159	DEPENDENT.	0.16428
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κύ. 101Α∟	0.7	23	93 66.4	23	140 100 <u>.</u> 0	2	0.02661	u172
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Q167 A	1 • 1	34 12 1 34 3 1 36 4 1 8 6 6	24.2 24.2 48.5 11.44	20.02	0 0 0	0 0 0	33 23 6
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0.0024 11 SIGNIFICANCE 25.44082 WITH 16 DEGREES OF FREEDOM 0.39214 CONTINGENCY COEFFICIENT = 0.21314 CHAMER'S V = CHI SQUARE

0.07941 WITH 0175 DEPENDENT. LAMBDA (SYMMETRIC) = 0.04734 UNCERTAÍNTY COEFFICIENT (ASYMMETRIC) = 0.0794) UNCERTAINTY COEFFICIENT (SYMMETRIC) = 0.07625 WITH 0175 LAMEDA (ASYMMETRIC) = 0.

0.0007 SIGNIFICANCE = SIGNIFICANCE = SOMFRS'S D (ASYMMETRIC) = 0.22210 WITH 0175 0.23119 0.20357 0.32545 KENDALL'S TAU B = KENDALL'S TAU C = GAMNIA =

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	COL PCT I	4	8 2•1	ه ه ار	TOTAL	
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114	COLUMN TOTAL	70 50.0	0.04 56 40.0	10.0	1 140 100•0	
CHI SOLATE	= - 5.8 = 0.20	5.87171 WITH .20479	2 D	EGREES OF FI	FREEDOM SIGNIF	SIGNIFICANCE = 0.0531
CONTINGENCY LAMBDA 15Y	12Y COEFFICIENT 13YMMETRIC) = 0	ENT = 0.1250	(1)	0173 D	DEPENDENT.	= 0.10000 WITH GILT DEPENDENT.
:	Y COEFFICIENT Y COEFFICIENT TAU B = -0.	CIENT (ASYMMETRIC) CIENT (SYMMETRIC) -0.17573 SIGNIF	METRIC) = METRIC) = SIGNIFIC SIGNIFIC	0.0306 0.02586 ANCE = ANCE =	2 WITH 0173 0.0159 0.0159	DEPENDENT. = 0.02238 WITH GILT
	-0.31622 (ASYMMETRIC)	VIC) = -0•	-0.16256 WITH	ГН 0173	DEPENDENT.	= -0.18997 wITH G117 DEPENDENT.
		0173 0173 8 SIGNIF	73 DEPENDENT. SIGNIFICANCE = 0	0.0262	= 0.16428 WITH UII7	IITH UI17 DEPENDENT.

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APPENDIX D

FAMILY CONSIDERATIONS CROSSTABS

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17 * * * * * * * * * * * * * * * * * * *					UEPENDENT.	WITH CLAS	UEPENDENT.
* * * * * * * * * * * * * * * * * * *					ITH U148	= 0.0310b	20970 wlth ul48 Dependent.
T 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					= 0.029 0.	UEPENDENT.	= -0.20970 WITH U148 DEPEND
* C * * C * C * C * C * C * C * C * C *	ROW TOTAL	64	54.3	140 100•0	FREEDOM SIGNIFICANCE DEPENDENT.	6 WITH G173 0.0045 0.0045	DEPENDENT. = 0.21962 WI
ν * ν * ν * υ *	, e	15.6 I 62.5 I 7.1 I	37.6	11.4	S .	0.03458 0.03458 ANCE = 0.	WITH 0173 ENT. = 0.0046
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	0148 11 11A 11	10.		-I28 20.0	7.06500 WITH 6.22464 ICIENT = 0.06250	POS	ู้ แพ้ญ
73 GRADE	COUNT OF PC	-	• · · · · · · · · · · · · · · · · · · ·	COLUMN TOTAL	UARE = +5 V = GENCY COEF	INTY COEF INTY COEF S TAU B S TAU C	22464 F
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(CREATION DATE = U2-10-81)

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				E = 0.0319	= 0.03750 WITH G129 DEPENDENT.	DEPENDENT. = 0.02768 with 0129	= -0.22917 WITH WILY DEPENDENT.	1129 DEPENDENT.
RUW TOTAL	60 45.5	72 54.5	132	SIGNIFICANCE			.NT.	0.19132 WITH 4129
D 4 4 1		1 4 9 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.5	(i	DEPENDENT.	0.04901 WITH Q173 0.03538 ICE = 0.0084	D.OOB4 DEPENDENT.	0 0 1
٠ ۳	1 41 25 1 41 • 7 1 64 • 1 1 18 • 9	44:00	29.5	EGREES OF FREEDOM	0173	= 0.0490 = 0.03538 1CANCE =	FICANCE = MITH 0173	ENT. = 0.0140
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COUNT ROW PCT COL PCT TOT PCT	-	• • • • • • • • • • • • • • • • • • •	COLUMN	% = 0 ∨ = 0	GENCY (ASYM	INTY COEFF	5 0 5	.25835 S R =-0
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CONTINUE CAREA

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ROW TOTAL 27 27 20,3 66,2 66,2 12,0	1 133 100.0 SIGNIFICANCE = 0.0006

0.08524 altm 0144 CEPENCENT. 0.32604 WITH G144 = 0.01887 WITH 0144 DEPENDENT. DEPFNDENT. 0.09697 WITH D115 DEPENDENT. 0.0001 0.09073 CONTINGENCY CUEFFICIENT = 0.42418

LAMBDA (ASYMMETRIC) = 0.06667 WITH 0115

LAMBDA (SYMMETRIC) = 0.04082

UNCFRTAINTY COEFFICIENT (ASYMMETRIC) = 0.096 SIGNIFICANCE = 0.29200 WITH 0115 UNCERTAINTY COEFFICIENT (SYMMETRIC) =
KENDALL'S TAU B = 0.30855 SIGNIFIC
KENDALL'S TAU C = 0.22010 SIGNIFIC
GAMMA = 0.52784 SOMERS'S D (ASYMMETRIC) = SOMERS'S D (SYMMETRIC) =

000000 DEPFNDENT. SIGNIFICANCE = 0.34864 WITH 0115 PEARSON'S R = 0.34258 ETA =

0.30808

0.34562 WITH 0144

DEPENDENT.

11

PAGE

ROW	TOTAL	10 7.5	80 60•2	33 24•8	100	133
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DEPENDENT. 0.10233 WITH 0164 DEPENDENT. 0.44620 WITH U164 0-01587 WITH G164 DEPENDENT. 11 DEPENDENT. 18 0.46853 WITH 0164 11 DEPENDENT. 0.12849 WITH Q144 0.11393 DEPENDENT. 0000000 " 000000 SOMERS'S D (ASYMMETRIC) = 0.38393 WITH 0144 SOMERS'S D (SYMMETRIC) = 0.41273 ETA = 0.45939 WITH 0144 DEPENDENT. SIGNIFICANCE = SIGNIFICANCE = LAMBDA (ASYMMETRIC) = 0.05660 WITH Q144 LAMBDA (SYMMETRIC) = 0.03448 UNCERTAINTY COEFFICIENT (ASYMMETRIC) = UNCERTAINTY COEFFICIENT (SYMMETRIC) = PEARSON'S R = 0.45762 SIGNIFICANCE = 0.44662 0.41389 CONTINGENCY COEFFICIENT = 0.28819 0.65063 KENDALL'S TAU B = KENDALL'S TAU C = CRAMER+S V = GAMMA =

6000.0

SIGNIFICANCE =

33.13935 WITH 12 DEGREES OF FREEDOM

CHI SQUARE =

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0 N O F 1 O N O	ROW TOTAL	1 26.5	1 39.4 1 1 39.4	1 29.5 1 29.5 1	4 0 0	132 100.0 CANCE = 0.0000	= 0.14444 PEPENDENT.	.0 = 0.0
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WORKS *** * * * * * * * * * * * * * * * * *	0167 A B B	12 1 48.0 37.5 1 40.0 9.1 1 12.9	16 1 18 30.8 1 28.6 50.0 1 35.1 12.1 1 11.4	10.3 1 25.0 12.5 1 23.0 3.0 1 7.0	0 00	32 4 31. WITH 12	14 4 N 0 0	(C) = 0.36776 WITI 1) = 0.38060 129 DEPENDENT 5 SIGNIFICANCE =
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	COUNT I ROW PCT IA COL PCT I TOT PCT I		52	· m	,	COLUMN 24.20543 CHI SQUARF = 64.20543 CRAMER'S V = 0.40266	MAETER COEFF	SOMERS'S D (ASYMMETRIC) SOMERS'S D (SYMMETRIC) ETA = 0,48067 WITH Q12 PEARSON'S R = 0,45596

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DEPENDENT. 0.5769 SIGNIFICANCE = 18 DEGREES OF FREEDOM 0.33085 16.22461 WITH CONTINGENCY COEFFICIENT 0.20241 CRAMER'S V =

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0.03841 WITH 0172 0.03922 WITH 0172 DEPENDENT. 0.05944 WITH 0129 DEPENDENT. 0.04667 0.05000 WITH 0129 UNCERTAINTY COEFFICIENT (ASYMMETRIC) = UNCERTAINTY COEFFICIENT (SYMMETRIC) = 0.04396 LAMBDA (ASYMMETRIC) = LAMBDA (SYMMETRIC) =

0.2135 0.2135 SIGNIFICANCE = SIGNIFICANCE -0.05688 -0.05755 KENCALL'S TAU B = KENDALL'S TAU C

GAMEA "

-0.06299 WITH G172 DEPFNDENT. DEPFNDENT. SOMERS'S D (ASYMMETRIC) = -0.05136 WITH 0129 DEPENDENT. SOMERS'S D (SYMMETRIC) = -0.05658 0.18918 WITH 0129

DEPENDENT.

0.17362 WITH 0172

0.2491

SIGNIFICANCE =

PEARSON'S R =-0.05947

ASSIGNMENT 0148 0 α ASSIGNMENT STABILIT * * * * *

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ROW TOTAL	23 16•4	51 36.4	63 45.0		100.0
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	0142 A	60	J	23 0	

DEPENDENT. 0.29120 WITH JI48 DEPENDENT. 0.45725 WITH G148 0.25000 WITH 0148 11 000000 **UEPENDENT**. 11 " SIGNIFICANCE DEPENDENT. UNCERTAINTY COEFFICIENT (ASYMMETRIC) = 0.21808 WITH 0142 UNCERTAINTY COEFFICIENT (SYMMETRIC) = 0.24939 DEPENDENT. 6 DEGREES OF FREEDOM 0.52870 SIGNIFICANCE = 0.43714 SIGNIFICANCE = 0.61130 WITH Q142 0.52317 LAMBDA (ASYMMETRIC) = 0.18182 WITH 0142 LAMBDA (SYMMETRIC) = 0.20661 0.57656 69.71459 WITH SOMERS'S D (ASYMMETRIC) = CONTINGENCY COEFFICIENT = SOMERS'S D (SYMMETRIC) = ETA = 0.58176 WITH Q142 0.49898 0.85458 KENDALL'S TAU B = KENDALL'S TAU C = KENDALL'S TAU C CRAMERIS V = CHI SQUARE GAMMA ..

000000 **DEPENDENT**. SIGNIFICANCE = PEARSON'S R = 0.56875

0.60008 WITH 0148 11

DEPENDENT.

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	ROW TOTAL	1	61 45.9	72 54•1	133
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0144	⋖	1 • 1	800 800 800 900 900	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	10 7.5
-	ROW PCT I	TOT PCT I	•:	· 6	COLUMN TOTAL
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したアドランドや「・ 0.02270 WITH G144 DEPENJENT. U.17145 WITH WI44 WITH U144 UEPENDENT. 0.1099 **DEPENDENT.** " 0.16165 WITH 0144 SIGHIFICANCE **CLPENDENT.** CACERTAINTY COEFFICIENT (ASYMMETRIC) = 0.03425 WITH G173 UACERTAINTY COEFFICIENT (SYMMETRIC) = 0.02730 DEPENDENT. 3 DEGREES OF FREEDOM 0.0261 0.0261 " 0,0315 SIGNIFICANCE = SIGNIFICANCE = SOVERSIS D (ASYMMETRIC) = 0.15060 WITH 0173 LAMEDA (ASYMMETRIC) = 0.09836 WITH 0173 DEPENDENT. ETA = 0.21303 WITH 0173 DEPENDENT CRAMERIS V = 0.21303 CONTINGENCY COEFFICIENT = 0.20836 SUVERSIS D (SYMMETRIC) = U.16035 0.05263 6.03606 WITH 0.16069 0.17028 LAMEDA (SYMMETRIC) = 0.30012 KENDALL'S TAU B = KENDALL'S TAU C = CHI SQUARE = 11 (4.1.1.1.1)

*.J. CER OF MISSING OBSERVATIONS =

PAGE ********* * * * * * * * * FAMILY CONTINUE CAKEEN 0144 * * * 2 'n) α 0 x *********** AGE **6117**

1. T . A DENCE O MIIN C144 :1 0.3111 ひとかといいとい! SIGNIFICANCE = DEPENDENT. UNCERTAINTY COEFFICIENT (SYMPETRIC) = U.U4289 WITH G175 UNCERTAINTY COEFFICIENT (SYMPETRIC) = U.04720 DEPENJERT. 0.0067 0.0067 13.83854 WITH 12 DEGREES OF FREEDOM 0.18623 KENDALL'S TAU B = -0.21369 SIGNIFICANCE = KENDALL'S TAU C = -0.17548 SIGNIFICANCE = GAMMA = -0.34809 SUMLES'S D (ASYMMETRIC) = -0.23260 WITH U175 STORES'S C (SYMMETRIC) = -0.23260 WITH U175 *ITH U175 0,30699 LAMBDA (ASYMMETRIC) = 0.
LAMBDA (SYMMETRIC) = 0. CONTINGENCY COEFFICIENT = CHI SQUARE = CRAMER•S V =

PAGE

X C	TOTAL	27 2003	35 26•3	63 47•4	8 0	133 100•0
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DEPENDENT. 0.05402 WITH U144 DEPENDENT. 0.19296 wITH 0144 #ITH 0144 DEPENDENT. 0.0568 DEPENDENT. ် 18 0.22964 WITH 0144 SIGNIFICANCE 11 DEPENDENT. UNCERTAINTY COEFFICIENT (ASYMMETRIC) = 0.04693 WITH G176 UNCERTAINTY COEFFICIENT (SYMMETRIC) = 0.05023 DEPENDENT. 9 DEGREES OF FREEDOM 0.0035 0.0035 16 SIGNIFICANCE = SIGNIFICANCE = (ASYMMETRIC) = 0.22580 WITH 0176 _ + + = 5 A (ASYMMETRIC) = 0.04286 WITH 0176 DEPENDENT. 0,33237 (SYMMETRIC) = 0.20809 0.20873 LEWEDZ (SYPMETRIC) = 0.02439 16.51673 WITH 11 = C.20091 WITH Q176 0.20346 CONTINGENCY COEFFICIENT 0.33712 KENIALLIS TAU C # # ENCALL'S TAU B = 11 4 13 40

The state of the s

FELLSON'S R # 0.22893 SIGNIFICANCE =

0.0040

APPENDIX E

SOCIAL LIFE/CAMARADERIE CROSSTABS

1

DEST OKGANIZATION							= 0.0022 0.17568 WITH G150 DEPENDENI.	- 0.06143 WITH U156
. A T I U N O B BY O I S B A * * * * * * * * * * * * * * * * * *							SIGNIFICANCE =	DEPENDENT.
30. * V * V *	RUW TOTAL	28 1 20•0	36 1 25.7	674	6 4	140	FREEDOM SI DEPENDENT.	281 WITH 0176 92 0.0000 0.0000
S	. C	5.0 I 0. 1.3 I 0. 5.0 I 0.	15 1 3 1.7 1 8.3 4.2 1 25.0 0.7 1 2.1	35 I 6 2.2 I 9.0 6.5 I 50.0 5.0 I 4.3	5-1 33-3 5-6 1 33-3 8-1 1 25-0 3-6 1 2-1	62 12 4•3 8•6	6 DEGREES OF 5824 1TH 0176	RIC) = 0.06281 IC) = 0.07092 GNIFICANCE = 0. GNIFICANCE = 0.
* * * * * * * * * * * * * * * * * * *	0156 A B	21 1 75.0 1 2 31.8 1 1 15.0 1	18 1 0 0 1 4 0 3 1 2	26 I 52 38.8 I 52 39.4 I 56 18.6 I 25	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	66 • 1 4	1219 WITH 7132 FNT = 0.39	ENT (ASYMMETRIC) ENT (SYMMETRIC) 0.30298 SIGNI 0.27995 SIGNI
0176 YEARS	COUNT I ROW PCT I COL PCT I	;	2.	*	1	COLUMN	CHI SQUARE = 20.61219 CRAMER'S V = 0.27132 CONTINGENCY COEFFICIENT = LAMBDA (ASYMMETRIC) = 0.	RTAINTY COEFFICI RTAINTY COEFFICI ALL'S TAU B =
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U.28247 WITH W156 **DEPENDENT** 0.36427 WITH 0156

DEPENDENT.

GAMIA = 0.47967 SUMERS'S D (ASYMMETRIC) = 0.32498 WITH G176 SUMERS'S D (SYMMETRIC) = 0.30224 ETA = 0.34494 WITH G176 DEPENDENT. PEA4SON'S R = 0.34376 SIGNIFICANCE = 0.0000

UEPENDENT

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E LEE (CREATION DATE = U2-12-81)	COUNT I 9 ROW PCT IA 9 COL PCT I 1 1 TOT PCT I 1 1 B I 0 1 I 0 I 66.	I 0 I 100 0 I 1 0 I 1 0 I I I 0 I I 0 I I 0 I	COLUMN 63 62 12 137 CHI STUARE = 30.62730 WITH 16 DEGREES OF FREEDOM. SIGNIFICANCE = 0.0150	CONTINGENCY COEFFICIENT = 0.42745 LAMBDA (ASYMMETRIC) = 0.03636 WITH 9177 LAMBDA (SYMMETRIC) = 0.11413 UNCERFAINTY COEFFICIENT (ASYMMETRIC) = 0.06009 WITH 9177 UNCERFAINTY COEFFICIENT (SYMMETRIC) = 0.06000 KENDALL'S TAU B = 0.28851. SIGNIFICANCE = 0.00000	0.34961 WITH 0177 0.28327 DEPENDENT.	EFP OF WISSING OBSERVATIONS = 3
# # # # # # # # # # # # # # # # # # #	a 177	-	130 E a a a a a a a	COSTING LAMBDA LAMBDA UNCERTA UNCERTA	SOMERS'S SOMERS'S FIASERS'S PEARSON'S	YJUME F P

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0520.0 !! SIGNIFICANCE 6 DEGREES OF FREEDOM. CONTINGERCY COEFFICIENT = 0.30496
AMBDA (ASYMNETRIC) = 0.09091 WITH Q178
AMBDA (SYMMETRIC) = 0.04933 14.35528 WITH PAMER'S . = 0.22643 CHI SOUARE =

-05514 JITH W148 DEPERAT. WITH GIGE 11 DEPENDENT. c 0.05173 WITH 0178 DEPENDENT. 0.05242 INCERTALITY COEFFICIENT (ASYMMETRIC) =

0.0003 JUCERTAINTY COEFFICIENT (SYMMETRIC) = 0.05242 /ENDALL'S TAU B = 0.26733. SIGNIFICANCE = /ENDALL'S TAU C = ******** SIGNIFICANCE =

CAMMA

. 114 914. fi DEPENDENT. D (SYMMETRIC) = 0.27542 WITH 0178 D (SYMMETRIC) = 0.26721 SOMERS'S D (ASYMMETRIC) = 3. 42331 SOMERS'S . = V13

DEPENDE IT.

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0.30087 WITH 9146 DEPENDENT. SIGNIFICANCE = .30352 WITH 0178 PEARSON'S R = 0.29463

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	SUCIAL ASPECTS	****
1 C F C		* * * * * *
BULATION	BY 0131	* * *
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*	SOURCE OF (****
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	COLUMN	10	82 59.0	33.8	139		
RAM CHI SQUA	ARE =	13.06712	I L I R	6 DEGREES	S OF FREEDOM.	SIGNIFICANCE = 0.0420	
CONTINGENCY CONTINGENCY LAMBDA (ASY	COEF	IENT = 0.	29314 WITH	0179 DE	DEPENDENT.	= 0.05263 WITH Q131	UEPERUENT

U. USCUE WITH CIST 14 DEPENDENT. LAMEDA (SYMMETRIC) = 0.02521 UNCERTAINTY COEFFICIENT (ASYMMETRIC) = 0.04163 WITH 0179 UNCERTAINTY COEFFICIENT (SYMMETRIC) = 0.04778 0.2319 0.0000 SIGNIFICANCE = SIGNIFICANCE = KENDALL'S TAU B = 0.05674. KENDALL'S TAU C = 42.32546. GAMMA = 0.09605

GANMA = 0.09605 SOMERS'S D'(ASYMMETRIC) = 0.06143 WITH Q179 DE SOMERS'S D (SYMMETRIC) = 0.05656 ETA = 0.16194 WITH Q179 DEPFNDENT. = PEAFSON'S R = 0.07582 SIGNIFICANCE = 0.1875

= 0.15818 WITH U131 DEPENDENT.

UEFF. C. ...

U.05241 WITH LIS.

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0.20643 WITH 0156 DEPENDENT. 0.33784 WITH G156 000000 DEPENDENT. 11 SIGNIFICANCE 0.18795 WITH Q146 DEPENDENT. 6 DEGREES OF FREEDOM LAMBDA (ASYMMETRIC) = 0.20000 WITH 0146 LAMBDA (SYMMETRIC) = 0.27338 UNCERTAINTY COEFFICIENT (ASYMMETRIC) = UNCERTAINTY COEFFICIENT (SYMMETRIC) = (0.53916 57.37613 WITH CRAMER'S V = 0.45268 CONTINGENCY COEFFICIENT = CHI SQUARE = CRAMER'S V =

000000 0000000 0.19676 SIGNIFICANCE = SIGNIFICANCE = 0.45276 0,51587 KENCALL'S TAU B = KENDALL'S TAU C = GAMMA = 0.78462

0.50633 WITH 0156 11 DEPENDENT. SOMERS'S D (ASYMMETRIC) = 0.52559 WITH 0146 0.51578 SOMERS'S D (SYMMETRIC) = ETA = 0.54543 WITH 0146

** 000000 DEPENDENT. SIGNIFICANCE = PEAKSON'S R = 0.54542

0.55413 WITH 0156

DEPENDENT

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0131 SOCIAL ASPECTS: C CROSSTABULATION * * * * * *

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					E = 0.5148 0. WITH G160 DEPENDENT.	T• = 0.018	= -0.08309 WITH G160 DEFENCENT.
ROW TOTAL	6 7 9	80 59•3	46 34•1	135	SIGNIFICANCE		ENDENT. 0.11937 WITH Q160
0 1		11.3 11.3 81.8 1.6.7	18.2 18.2 18.5 19.5	11 8 8 1	FREEDOM S. DEPENDENT.	16 WITH 0131 0-1744 0-1744	DEPENDENT. = 0.11937
- m.	20.00 0.00 0.00 0.00 0.00	32 1 40.0 1 57.1 1	19 I 41.3 I 33.9 I 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	56	15 OF	0.025 0.0214 ANCE =	н <u>ф</u> 131
B 2•1	22.2 1 22.2 1 4.2 1 1.5 1	37.5 I 62.5 I 22.2. I	16 1 1 3 3 4 • 8 1 3 3 3 • 1 1 1 • 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1	35.6	6 C 0.1931	(ASYMMETRIC) = (SYMMETRIC) = 07362 SIGNIFIC) = -0.06523 WITH = -0.07309 31 DEPENDENT. SIGNIFICANCE = 0
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Š	8 8	U	a ¹³	4	CHI SQUARE CRAMER'S V CONTINGENCY LAMBDA (ASY	LAMBDA (SYM UNCERTAINTY UNCERTAINTY KENDALL'S KENDALL'S	SOMERS'S E SOMERS'S E ETA = 0.0

NUMBER OF MISSING OBSERVATIONS =

SUCIAL FOR RETENTION * * * * * * * * * * PAGE					0.1065 with dise ULPEWUERI.	= 0.02369 WITH UI46	0.18298 WITH G146 DEPENDENT. DEPENDENT.
7					ıı °	DEPENDENT.	= 0. WITH 0146
* A T * * * * * * * * * * * * * * * * *	KOW TOTAL	-1 1 45•7 1 1	76 1 54•3 1	140	SIGNIFICANCE		
S + A E C + * * * * * * * * * * * * * * * * * *	4	000	100.0	0.7	FREEDUM DEPENUENT.	0.03494 WITH 0173 .02824 CE = 0.0195 CE = 0.0195	DEPENDENT.
o, * □ * ∪ *	ر ۱•	23.8 3.6	21.1 76.2 11.4	21 15.0	S OF	= 0.03494 0.02824 CANCE = (WITH 4173 ENT. = 0.0138
* * *	8 2•1	36 1 56.3 1 48.0 1 25.7 1	51.39 I 52.00 I	75 53.6	3 DEGREES 0.20445 8 WITH G173	" " " "	0.15235 WITH 0.16626 DEPENDENT
* * * * * * * * *	0146 A E		20 20 46.93 146.53	43	1 B 8 1 1	IENT (ASYMMETRIC) IENT (SYMMETRIC) 0.16696 SIGNIF 0.18163 SIGNIF	¥00æ
# # # # # # # # # # # # # # # # # # #	COUNT 1 ROW PCT 1 COL PCT 1		6	COLUMN	RE = 6.10751 V = 0.20887 NCY COEFICIENT ASYMMETRIC) = 0	UNCERTAINTY COEFFICI UNCERTAINTY COEFFICI KEYDALL'S TAU B = KEYDALL'S TAU C = GAMMA = 0.30479	D (ASYMMETRIC) D (SYMMETRIC) •20887 WITH Q17 S R = 0•18618
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UZYZ WZWI. 0.01920 ... * * * * * * * * * * * **ORGANIZATION** 0.1912U MITH U150 U.09459 WITH WIS6 DEPENDENT. 0.0874 **BEST** DEPENDENT. " 0.18655 WITH U156 SIGNIFICANCE 0156 DEPENDENT. UNCERTAINTY COEFFICIENT (ASYMMETRIC) = 0.02586 WITH 0173 UNCERTAINTY COEFFICIENT (SYMMETRIC) = 0.02208 DEPENDENT. 54.3 TOTAL 100.0 0.0152 0.0152 RC. ₹ 2 DEGREES OF FREEDOM н S S 0.1775 SIGNIFICANCE = 0.18960 SIGNIFICANCE = 75.0 25.0 2.1 11.8 4.9 8.6 SOMERS'S D (ASYMMETRIC) = 0.16525 wITH Q173 6) œ U LAMEDA (SYMMETRIC) = 0.09375 WITH G173 LAMEDA (SYMMETRIC) = 0.09420 DEPENDENT. 0.18344 40.3 17.9 26.4 37 48.7 59.7 44.3 39.1 62 SUMERS'S D (SYMMETRIC) = 6.17728 ETA = 6.18661 WITH 0173 DEPER \mathfrak{a} 4.87528 WITH 56.3 45.5 21.4 54.5 25.7 39.5 99 47.1 CONTINGENCY COEFFICIENT = 0156 0.18661 * * * * * * * GRADE 0.32839 TOT PCT ROW PCT PCT KENDALL'S TAU B = KENDALL'S TAU C = COUNT COLUMN TUTAL COL CRANERIS V = CAMPIA .. 0173 ~

0.0137

PEAKSON'S R = 0.18655 SIGNIFICANCE =

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URGANIZATION

RUW TOTAL 140 100•0 17.9 35 25.0 **5**2 99 3 2.1 3.1 50.0 4.3 8.6 50.0 4.3 30.6 13.6 41.9 .4.3 54.3 39.4 18.6 48.0 19.4 8.6 4 • 8 2 • 1 2.99 3.2 1.4 62 -28.6 15.2 1.5 7.1 51.5 51.5 24.3 52.0 6.3 0.7 47.1 19.7 33,3 72.7 12.1 0156 ī COUNT ROW PCT PCT PCT COLUMN COL TOT 0175 4 Ώ U 1.38

0.13514 WITH U156 0.1036 11 SIGNIFICANCE DEPENDENT. 8 DEGREES OF FREEDOM WITH 0175 13.24875 WITH 0.06757 LAMBDA (ASYMMETRIC) = 0. п CUMITAGENCY COEFFICIENT 0.21752 (SYMMETRIC) = CRAMERIS V = CHI SGUARE LAMEDA

DEPENDENT. 0.04466 WITH 0175 4200°0 UNCERTATIVTY COEFFICIENT (SYMMETRIC) = 0.05202 SIGNIFICANCE = SIGNIFICANCE = UNCEPTATATY COEFFICIENT (ASYMMETRIC) = KENDALL'S TAU B =

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APPENDIX F

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								<pre>cANCE = 0.0452 = 0.15276 with 0126</pre>
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OF PERFORME 0.05510 WITH 1125 JEFENDENT. 0.19380 AITH U125 WITH G125 0.0176 SIGNIFICANCE = DEPENDENT. 11 6 DEGREES OF FREEDOM. DEPENDENT. UNCERTAINTY COEFFICIENT (ASYMMETRIC) = 0.05713 WITH 0178 DEPENDENT. 000000 0.0058 0.05609 UNCERTAINTY COEFFICIENT (SYMMETRIC) = 0.05609 KENDALL'S TAU B = 0.19465. SIGNIFICANCE = KENDALL'S TAU C = *******. SIGNIFICANCE = 0.19857 WITH 0178 LAMEDA (SYMMETRIC) = 0.05263 WITH G178 LAMEDA (SYMMETRIC) = 0.02878 CONTINGENCY COEFFICIENT = 0.31761 15.37092 WITH 0.19461 KENDALL'S TAU B = 0.19465. KENDALL'S TAU C = ******* GAMMA = 0.31262 = ****** SOMERS'S D (ASYMMETRIC) = 0.15 CRAMER'S V = 0.23685 RAW CHI SQUARE =

NUMBER OF MISSING OBSERVATIONS =

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= 0.23613 WITH U125

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0.1900C WITH D128 DEPENDENT. 0.07500 WITH 0128 0.00000 DEPENDENT. SIGNIFICANCE = 0-14759 WITH 0119 DEPENDENT. 9 DEGREES OF FREEDOM UNCERTAINTY COEFFICIENT (ASYMMETRIC) = 0.14759 UNCERTAINTY COEFFICIENT (SYMMETRIC) = 0.16613 CONTINGENCY COEFFICIENT = 0.57628 LAMBDA (ASYMMETRIC) = 0.11475 WITH 0119 LAMBDA (SYMMETRIC) = 0.09901 69.61077 WITH 0.40711 CRAMERIS V = CHI SQUARF =

0000000 000000 0.39178 SIGNIFICANCE = 0.27088 SIGNIFICANCE = KENDALL'S TAU B = KENDALL'S TAU C =

11 000000 DEPENDENT. SIGNIFICANCE = 0.38766 SOMERS'S D (SYMMETRIC) = ETA = 0.50335 WITH 0119 PEARSON'S R = 0.48462 ١

DEPENDENT.

0.33866 WITH 0128

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DEPFNDENT.

0.45322 WITH 0119

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SOMERS'S D (ASYMMETRIC)

0.68632

GAMMA =

0.54229 WITH 0128

DEPFNDENT.

SENIOR LEADERSHIP IMPROVES LIFE * * * * * * * * ATION ABUL S 0 *********** ******** FRUSTATED BY CONGRESS

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0.22561 WITH 0128 14 DEPENDENT. SOMERS'S D (ASYMMETRIC) = 0.28477 WITH 0121 0.25176 SOMERS S D (SYMMETRIC) =

.. 0.0001 DFPFNDENT. SIGNIFICANCE = ETA = 0.32736 WITH 0121 PEARSON'S R = 0.31243 SI

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7.3 I | | 7 | 37.5 | 4.4 | I O | D. I | 0. | 0. | 0 | •0 | o o | | 11.7 | FREEDOM S | | DEPENDENT. | WITH 0125 | 00000 | o,
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•i | DEPENDENT | = 0.43235 |
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I | 0.12093 | 1846 | | WITH 0125 | 000000 |
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0.13336 WITH 0155 DEPF NDENT. WITH 0155 0.0003 DEPENDENT. .0 18 SIGNIFICANCE 0.11096 WITH 0126 DEPENDENT. 00000 9 DEGREES OF FREEDOM 0.12113 SIGNIFICANCE = CONTINGENCY COEFFICIENT = 0.42486 LAMBDA (ASYMMETRIC) = 0.23611 WITH 0126 LAMBDA (SYMMETRIC) = 0.15044 UNCERTAINTY COEFFICIENT (ASYMMETRIC) = UNCERTAINTY COEFFICIENT (SYMMETRIC) = (DOSSACIO MILI -0.38027 -0.26231 0.27096 -0.65937 KENDALL'S TAU B = KENDALL'S TAU C = CRAMER'S V GAMMA =

DEPENDENT. 11 000000 SOMERS'S D (ASYMMETRIC) = -0.43404 WITH 0126 DEPENDENT. SIGNIFICANCE = SOMERS.5 D (SYMMETRIC) = -0.37697 ETA = 0.43352 WITH 0126 PEARSON'S R =-0,41256

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= -0.33316 WITH G155

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0.07026 WITH 0152 DEPENDENT. 0.06061 WITH 0152 11 DEPENDENT. UNCERTAINTY COEFFICIENT (ASYMMFTRIC) = 0.07866 WITH 0140 UNCERTAINTY COEFFICIENT (SYMMETRIC) = 0.07422 DEPENDENT. 0.2475 0.05337 SIGNIFICANCE = 0.04181 SIGNIFICANCE = LAMEDA (ASYMMETRIC) = 0.01786 WITH 0140 0.04098 LAMEDA (SYMMETRIC) = 0.08841 KENDALL'S TAU B = KENDALL'S TAU C = GAMMA =

0.05668 WITH 0152 11 DEPENDENT. SOMERS'S D (ASYMMETRIC) = 0.05025 WITH G140 SOMERS'S D (SYMMETRIC) = 0.05327 DEPENDENT. ETA = 0.24415 WITH 0140 DEPENDENT. PEARSON'S R = 0.00132 SIGNIFICANCE = SOMERS'S D (SYMMETRIC) =

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0.04116 ATT- 1.51

DEPENDENT.

0.03409 WITH Q135 0.0166 0.03729 0.16235 SIGNIFICANCE = 0.13347 SIGNIFICANCE = LAMBDA (SYMMETRIC) = 0.03623 UNCERTAINTY COEFFICIENT (ASYMMFTRIC) = UNCERTAINTY COEFFICIENT (SYMMETRIC) = (KENDALL'S TAU B = KENDALL'S TAU C =

DEPENDENT. 0.17220 WITH 0135 SOMERS'S D (ASYMMETRIC) = 0.25918 GAMMA =

18 0.0259 DEPFNDENT. SIGNIFICANCE = 0.16207 SOMERS'S D (SYMMETRIC) = ETA = 0.23595 WITH 0135 PEARSON'S R = 0.16472

DEPENDENT. 0.19589 WITH 0150

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= 0.28713 WITH 0178
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BER OF MISSING OBSERVATIONS |

APPENDIX G

RETENTION CROSSTABS

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0.05488 WITH Q173 0.0073 0.0073 0.04434 -0.19767 SIGNIFICANCE = -0.21306 SIGNIFICANCE = UNCERTAINTY COEFFICIENT (ASYMMETRIC) = UNCERTAINTY COEFFICIENT (SYMMETRIC) = CRYDALL'S TAU B = -0.19767 SIGNIFICAN KEYSALL'S TAU C = -0.21306 SIGNIFICAN

-0.35656

GAMMA =

= -0.21464 wITH w153 DEPENDENT. 0.21102 WITH 0153 DEPENDENT. 0.0062 SOMERS'S D (ASYMMETRIC) = -0.18204 WITH G173 DEPENDENT. SIGNIFICANCE = SOWERS'S D (SYMMETRIC) = -0.19700 ETA = 0.27008 WITH G173 DEPER PEARSON'S R =-0.21102

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0.04664 WITH U162 DEPENDENT. 0.03746 WITH 0175 UNCERTAINTY COEFFICIENT (ASYMMETRIC) = 0.03746 UNCERTAINTY COEFFICIENT (SYMMETRIC) = 0.04155 LAMBDA (SYMMETRIC) =

SIGNIFICANCE = SIGNIFICANCE = -0.05619 -0.06630 -0.10225 KENDALL'S TAU B = KENLALL'S TAU C =

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0.05505 WITH W153 UEPENDENT. WITH G153 0.0458 DEPENDENT. • " SIGNIFICANCE 0.04666 WITH G176 DEPENDENT. 9 DEGREES OF FREEDOM 6660.0 UNCERTAINTY COEFFICIENT (ASYMMETRIC) = 0.0466 UNCERTAINTY COEFFICIENT (SYMMETRIC) = 0.05051 SIGNIFICANCE = SIGNIFICANCE = LAMBDA (ASYMMETRIC) = 0.02740 WITH 0176 LAMBDA (SYMMETRIC) = 0.01481 0.33072 -0.09698 17.19327 WITH CONTINGENCY COEFFICIENT = 0.20233 KENCALL'S TAU B = KENDALL'S TAU C = CHI SQUARE = CRAMER*S V =

KENDALL'S TAU C = -0.08041 SIGNIFICANCE = 0.0999 GAMMA = -0.15459 SOMERSIS D (ASYMMETRIC) = -0.10305 WITH 0176 DEPENDENT. SUMERS'S D (SYMMETRIC) = -0.09681 ETA = 0.24449 WITH 0176 DEPENDENT. = 0.16467

: 0.16467 WITH UI53 DEPENDENT.

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= -0.09127 AITH G153

76 UEPENDENI. = U.16467 WITH UI: SIGNIFICANCE = U.1807

PEAKSON'S R =-0.07773

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MITH G169 0.0014 15 SIGNIFICANCE 12 DEGREES OF FREEDOM. DEPENDENT. CONTINGENCY COEFFICIENT = C.43666 31.878C8 #ITH 0.27550 RAW CHI SQUARE = CRAMER'S V =

U.11084 AITH 1754 DEPENDENT. UNCERTAINTY COEFFICIENT (ASYMMETRIC) = 0.09220 WITH 0179 UNCERTAINTY COEFFICIENT (SYMMETRIC) = C.10066 LAMBDA (SYMMETRIC) = 0.06349 WITH 0179

0.2627 000000 SIGNIFICANCE = SIGNIFICANCE = KENDALL'S TAU B ≈ 0.04795. KENDALL'S TAU C ≈ 28.08541.

= 0.64167 *IIH . 104 DEPENDENT. GAMMA = 0.07836 SCMERS'S D (ASYMMETRIC) = C.05516 WITH 0179 SOMERS'S D (SYMMETRIC) = 0.04746 #ETA = 0.34336 WITH 0179 DEPENDENT.

0.1468 PEARSON'S R = 0.08940 SIGNIFICANCE =

DEPERDENT. 0.14718 AITH W167

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DEPENDENT. 0.14894 WITH 0161 DEPENDENT. = -0.39576 WITH U161 0+26316 WITH 0161 100000 DEPENDENT. 11 11 SIGNIFICANCE DEPENDENT. 0.13252 WITH 0122 DEPENDENT. 000000 9 DEGREES OF FREEDOM 0.0000 UNCERTAINTY COEFFICIENT (ASYMMETRIC) = 0.13250 UNCERTAINTY COEFFICIENT (SYMMETRIC) = 0.14025 SIGNIFICANCE = SIGNIFICANCE = SOMERS'S D (ASYMMETRIC) = -0.42600 WITH 0122 LAMBDA (ASYMMETRIC) = 0.32813 WITH 0122 LAMBDA (SYMMETRIC) = 0.29752 0.44342 SOMERS'S D (SYMMETRIC) = -0.41032 ETA = 0.37728 WITH Q122 DEPE -0.41060 34.26442 WITH CONTINGENCY COEFFICIENT = 0.28563 -0.66530 KENDALL'S TAU B = KENDALL'S TAU C = 11 CRAMER'S V SQUARE GAMP.A =

0.44207 WITH 0161 11 DEPENDENT.

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PEARSON'S R ==0.36730 SIGNIFICANCE =

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UEPENDENT. 0.02174 WITH U137 000000 11 SIGNIFICANCE DEPENDENT. 6 DEGREES OF FREEDOM CONTINGENCY COEFFICIENT = 0.45045 LAMBDA (ASYMMETRIC) = 0.05882 WITH 0123 LAMBDA (SYMMETRIC) = 0.04124 35.38269 WITH 0.35676 CRAMER'S V = SQUARE =

UNCERTAINTY COEFFICIENT (ASYMMETRIC) = 0.12248 WITH 0123 UNCERTAINTY COEFFICIENT (SYMMETRIC) = 0.12217

KENDALL'S TAU B = 0.32626 SIGNIFICANCE = 0.0000 KENDALL'S TAU C = 0.25216 SIGNIFICANCE = 0.0000 GAMMA = 0.53281

0.31731 WITH U137 DEPENDENT. 0.33547 WITH 0123 SOMERS'S D (ASYMMETRIC) = 0.33547 SOMERS'S D (SYMMETRIC) = 0.32614

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DEPENDENT.

0.33205 WITH 0137

U.12106 milm G137

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ETA = 0.36492 WITH G123 DEPENDENT. PEARSON'S R = 0.32958 SIGNIFICANCE = 0.0000

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UNCERTAINTY COEFFICIENT (SYMMETRIC) = 0.06679 WITH 0163 UNCERTAINTY COEFFICIENT (SYMMETRIC) = 0.08567 0.0001 0.30648 SIGNIFICANCE = 0.28224 SIGNIFICANCE = KENDALL'S TAU B = KENDALL'S TAU C =

0.24959 WITH 0171 DEPENDENT. 11 0.38700 WITH U171 DEPENDENT. 11 SOMERS'S D (ASYMMETRIC) = 0.37633 WITH 0163 DEPENDENT. SOMERSOUS LESTMETRIC) = 0.3UU13 ETA = 0.31479 WITH 0163 DEPENDENT PEARSON'S R = 0.31479 SIGNIFICANCE = 0.60052 GAMMA =

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UEPENDENT. 0.07818 AITH U170 DEPENDENT. = -0.20130 WITH 0170 WITH G170 0.0101 DEPENDENT. **.** SIGNIFICANCE = . DEPENDENT. 0.03937 WITH 0151 DEPENDENT. 3 DEGREES OF FREEDOM 9000000 0.05237 SIGNIFICANCE = SIGNIFICANCE = SOMERS'S D (ASYMMETRIC) = -0.34404 WITH 0151 LAMBDA (ASYMMETRIC) = 0.06154 WITH 0151 LAMBDA (SYMMETRIC) = 0.04124 UNCERTAINTY COEFFICIENT (ASYMMETRIC) = UNCERTAINTY COEFFICIENT (SYMMETRIC) = 0.27456 SOMERS'S D (SYMMETRIC) = -0.25399 -0,26316 -0,24388 11.33278 WITH 0.28554 CONTINGENCY COEFFICIENT -0.54236 KENDALL'S TAU B = KENDALL'S TAU C = CRAMER'S V = CHI SQUARE GAMMA =

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APPENDIX H

CAREER INTENTIONS CROSSTABS

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0.03178 4178 9164 #11H G164 DEPENDENT. 0 DEPENDENT. WITH 0179 LAMBDA (ASYMMETRIC) = 0. LAMBDA (SYMMETRIC) = 0.

UNCERTAINTY COEFFICIENT (SYMMETRIC) = 0.03487 WITH 0179 UNCERTAINTY COEFFICIENT (SYMMETRIC) = 0.03291 SIGNIFICANCE = KENDALL'S TAU B = -0.01031. GAMMA = -0.01618

= -C.01052 MITH 4164 DEPENDENT. SOMERS'S D (ASYMMETRIC) = -C.51005 WITH 0179 SOMERS'S D (SYMMETRIC) = -C.01031

± 0.08413 #ITH G164 DEPENDENT. SIGNIFICANCE = ETA = 0.19403 WITH 9179 PEARSON'S R =-0.01138

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0.0001 SIGNIFICANCE = 3 DEGREES OF FREEDOM 0.36547 21.27411 WITH CONTINGENCY COEFFICIENT = 0.39263 CRAMER'S V = CHI SQUARE =

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KENDALL'S TAU B = -0.34303 SIGNIFICANCE = 0.0000
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SOMERS'S D (SYMMETRIC) = 0.20945

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APPENDIX I

POSITIVE FACTORS

WRITTEN RESPONSES TO QUESTION 190--THREE MOST POSITIVE FACTORS IN AN AIR FORCE CAREER

NUMBER 1 FACTOR

1A. Job Satisfaction

Job satisfaction. (18)*
Sense of accomplishment. (2)
Knowing I am doing something important and worthwhile.
Opportunity for job satisfaction.
Meaningful work.
Job enrichment.
Personal/professional job enrichment.
Job fulfillment.
Sense of mission/contribution.
Contributor to elite group/mission.

1B. Flying

Flying. (5)
Operational flying.
Flying duty.
Chance to fly.
Enjoy flying airplanes.
Flying fighters.
Flying Airplanes.
Opportunity to fly fighters.

1C. Challenge (of the job)

Challenge. (3)
Challenging, rewarding jobs. (2)
Professional challenge.
The challenge--playing a significant part in the leadership/
management of a key part of the USAF mission.
Continuing challenge; flying, leadership opportunities, different assignments.
Challenging assignments.
Challenge and responsibility.
Opportunity for challenging jobs.
Varied and challenging jobs.
Challenging mission.

^{*}Parenthetical numbers indicate the number of times a particular response appeared; e.g., Job satisfaction was listed as the number one factor 18 times.

1D. Responsibility (of the job)

Responsibility. (4)
Job responsibility. (5)
Responsibility of the job. (2)
Responsibility level.
Responsibility for important activities.
Job responsibility commensurate with skill level.

1E. Job Opportunities

Job opportunities. (2)
Job opportunities and locations.
Rewarding job opportunities.
Job opportunities to include variety and movement.
Opportunity (type of job)
Responsible job opportunities.

1F. The Job Itself

The job.

Job and working environment.

Good jobs.

Mission.

2. People

People. (2)
The people I associate with. (2)
Your peers (the people you work with).
Caliber of people.
Camaraderie
The people you meet and the friends you keep--the closeness of military life.
The people you work with.
The people/camaraderie.
Quality of people you work/live around.
Association with dedicated folk.
Generally, the dedication of fellow AF members.

3. Service to Nation

Duty to country. (2)
Opportunity to serve my country. (2)
Service to country. (2)
Service to nation.
Sense of duty.
A sense of service.
Feeling of self worth; providing a needed service to country.
Patriotism

Sense of service to country.
Support of a common objective (defense of country).
Respect, esteem of country.
Sense of serving a worthy cause.
Cpportunity for an exciting and meaningful job--service to country.

4. Retirement System

Retirement system.
Retirement benefits.
Retirement pay and benefits.
Pension.
Retirement program.
Retirement income.
Retirement benefits/active duty benefits.
20 year retirement.
Retirement system allowing second career.

5. Travel

Travel. (7)

6. Pay/Benefits

No responses as a number one factor.

7. Advancement/Promotion

Promotion in rank and responsibility. Opportunity to advance in rank and responsibility. Promotion.

8. Leadership Opportunities

Chance for leadership.
Opportunity for leadership and command.
Leadership opportunities.

9. Security

Security. (2) Job security.

10. Professionalism

Professionalism. Professional pride.

ll. Way of Life

The way of life.

12. Educational Opportunities

Continuing educational opportunities.

13. Impact on Family

No responses as a number one factor.

14. No Positive Factors

Does not have any strong, positive factors.

15. Status/Pride

No responses as a number one factor.

16. Stability

No responses as a number one factor.

17. No Number 3

No responses as a number one factor (obviously).

18. Leave

No responses as a number one factor.

WRITTEN RESPONSES TO QUESTION 190--THREE MOST POSITIVE FACTORS IN AN AIR FORCE CAREER

NUMBER 2 FACTOR

1A. Job Satisfaction

Job satisfaction. (10)
A sense of fulfillment.
Ability to achieve results; influence decisions.
Feeling of doing a worthwhile job.
Job satisfaction--sometimes depends on your boss.
Some jobs are really worth doing.
Rewarding experiences.
Utilization of talents.

1B. Flying

Flying. (10) Opportunity to fly.

1C. Challenge (of the job)

Challenging assignments.
Active competitive and changing environment.
Challenging opportunities.
Challenging work environment.

1D. Responsibility (of the job)

Responsibility.
Ability to assume responsibility and initiative.
Job responsibility.
Responsibility and attendant authority.

1E. Job Opportunities

No responses as a number two factor.

1F. The Job Itself

Interesting work. Interesting job. Jobs held.

1G. Job Diversity

Variety--types of jobs and locations Job diversity. (2) Diversity Broad variety of increasingly challenging assignments. Challenging variety vs civilian ruts. Variety of jobs.

1 H. Job Technology

Involvement with state of the art technology.

2. The People

Interpersonal relationships. Friendships developed. Quality of career personnel to work with. Working with the finest people in the U.S. Friends around the world. Social life. People I work with. Super associations -- professional and personal. Making many good friends. Camaraderie of fighter pilot fraternity. Working relationships. People. (2) Camaraderie. Quality of people. Unit identification and sense of belonging. Meeting and working with good but different people. Work with bright, well-informed people.

3. Service to Nation

Service to nation.
Service to country. (2)
Satisfaction from serving country--making a contribution Patriotism.
Sense of purpose.
Important job--patriotism, etc..
Sense of serving my country.
The mission and contribution to our society.
Opportunity to serve country.

4. Retirement System

Retirement. (3)
Retirement program. (2)
Early (20 yr.) retirement.
Opportunity for early retirement.
Early retirement.
Retirement system.
Military retirement.
Retirement system (20-30 yr. options).

5. Travel

Travel. (4)
Travel opportunities. (2)

6. Pay/Benefits

Pay and allowances. (2)
Money
Pay.(5)
Allowances.
Fringe benefits including recreational opportunities
Family medical care.
Medical Benefits.

7. Advancement/Promotion

Opportunity to progress thru hard work and study. Reasonably rapid promotions. Opportunities for advancement. Advancement. Equal opportunity. Early promotion. Promotion opportunities.

8. Leadership Opportunities

The authority vested in posotions of increasing responsibility. Leadership opportunities. (4)
Leadership responsibilities.
Opportunity to lead early in career.
Being able to be a leader.

9. Security

Job security. (3)
Career Stability.
Security for family--present and future
Security.

10. Professionalism

The relationship to other professionals. Working with other professionals. Belonging to a highly professional organization. Working with professional peers. Membership in a profession. Pride in being a professional.(2)

11. Way of Life

Way of life.
Military.
Family reasonably happy with military life/lifestyle.
(cosmopolitan with sense of community.)

12. Education Opportunities

Education Opportunities.

13. Impact on Family

No responses as a number 2 factor.

14. No Positive Factors

Does not have any strong, positive factors.

15. Status/Pride

No responses as a number 2 factor.

16. Stability

Stability

17. No Number 3

Obviously, no responses as a number 2 factor.

18. Leave

No responses as a number 2 factor.

WRITTEN RESPONSES TO QUESTION 190--THREE MOST POSITIVE FACTORS IN AN AIR FORCE CAREER

NUMBER 3 FACTOR

1A. Job Satisfaction

Job satisfaction. (6)
Influence of policy.
Psychic reward.
Enjoyment.
Excitement of an AF career--never a dull moment

1B. Flying

Flying. (2) Enjoyed flying

1C. Challenge (of the job)

Challenge. (4)
Challenging jobs. (4)
Challenge of the job assigned.
A career that stimulates and challenges on individual.

1D. Responsibility (of the job)

High degree of responsibility in my job.

1E. Job Opportunities

Challenging job opportunities.

1F. The Job Itself

Good type of job.
Interesting work.
Exciting, interesting job.
When you are lucky, a good job.

1G. Job Diversity

Opportunity to do a variety of jobs.
Opportunity to have a broad career with many different jobs in different locations.
Different job experiences.
Varied assignments.

1H. Job Technology

No responses as a number 3 factor.

2. The People

Great people.
Social relationships.
People. (5)
Working with good people.
Corporate esprit de corps.
Camaraderie. (3)
People you work with. (2)
Dedication of career personnel.
Comradeship.
People to people relationships.
Working with a great group of people.
AF way of life (camaraderie and esprit)
Quality of people I work with.

3. Service to Nation

Serve my country. (2)
Patriotism.
Service to country. (4)
Patriotism fulfillment. (2)
Sense of contributing to the country. (2)
Respect of public.
Psychic rewards of service.
Contribution to nation.
Opportunity to serve a great cause--my country.
Sense of duty.
Satisfaction thru service to country.

4. Retirement System

Retirement at early age. (2)
Early retirement and a financial base for a future career.
Retirement program. (3)
Retirement benefits. (3)
Retirement. (2)
Long term security aspects of the military retirement system.
Retirement options.
Decent retirement plan.

5. Travel

Travel. (9)
Travel opportunities.
Opportunity to travel.
Changing jobs/locations.
Location.
Travel within reason.
Travel earlier in career.

6. Pay/Benefits

Pay. (2)
Pay and Benefits.
Increased priviledges and benefits.
Benefits.
Medical benefits. (3)

7. Advancement/Promotion

Promotion.
Advancement opportunities. (2)
Career progression.
Cpportunity to advance based on individual performance.

8. Leadership Opportunities

Command opportunity.
Opportunity to command a flying organization.

9. Security

Job Security. (2) Security. (3)

10. Professionalism

No responses as a number 3 factor.

11. Way of Life

No responses as a number 3 factor.

12. Education Opportunities

Education. (5)

13. Impact on Family

Ability to provide my family a secure future.
In many ways it is good for my family.
Education for children, i.e., new places, new friends.
Family support, growth.
The manner in which senior leaderhip shows concern for family related issues.
Time to spend with my family.

14. No positive Factors

Does not have any strong positive factors.

15. Status/Pride

Belonging to an organization with the great history of the Air Force (pride).

Status. Prestige. Recognition.

16. Stability

Stability.

17. No Number 3

No number 3. (2)

18. Leave

Initially, the 30-days' leave (some industries provide their upper executives 5-6 weeks leave today).

APPENDIX J

NEGATIVE FACTORS

WRITTEN RESPONSES TO QUESTION 191--THREE MOST NEGATIVE FACTORS IN AN AIR FORCE CAREER

NUMBER 1 FACTOR

1A. Inadequate Pay and Allowances

Pay, allowances -- compensation in general, compared to what I've seen in civilian sector. Pay. (8) Low pay. (3) Compensation. (2) Pay and allowances. (5) Pay, to include relocation allowances. Insufficient pay and benefits compared to my contemporaries in civilian industry. Uncertainty of adequate pay. Many equate the military to ministers. They expect us to live on patriotism, the flag and mom's apple pie. Inadequate pay and allowances for services provided. Arbitrary compensation/benefit adjustments. Inadequate compensation. The lack of significant pay and benefits which reflects a continuing lack of respect by the country/government for the military role in a viable national security posture. Archaic compensation and benefits package. Pay disparity. Relative deterioration of pay and benefits. Compensation not responsive to inflation. Pay caps during inflation. Inadequate compensation to offset inflation. Proper compensation. Pay vs cost of living. Inability to keep income in pace with economy.

1B. Eroding Benefits

Pay inadequate.

Compensation below inflation rate.

Poor medical service and no dental care for dependents. Erosion of benefits. (2)
Decrease and loss of benefits and privileges.
Lack of dental care for dependents.

1C. Moving Costs

High cost of PCS moves.
Frequent moves and cost.
Moving costs.
Moving and receiving major damage with very little compensation.
The "I don't care" attitude of moving companies plus
cost of moving--DLA=1 month's quarters--just don't hack it.

2A. Management Related

Centralized control and management.
Unrealistic controls through micromanagement.
Management. (2)
Micromanagement. (3)
Poor senior management (at least in my career field).
Lack of participative management
Still too centralized at wing level.
Cver-management--too much cover your _____.

2B. Leadership Related

2C. Policy Related

Personnel policies.
Stupid management tools--such as 1-2-3 OER.
Uncertainty; rules keep changing.
Short term management (1-2-3 OER to kill inflation).

3A. Instability

Frequent TDY and separation.

Family separation (6).

Job caused family separation.

Family disruption.

Period of maximum moving is at worst possible time for family (teenaged children).

Disruption to family.

Disruption of family life/schooling/separations.

Instability. (2)

Lack of tour stability.

Family separation (moving).

Disruption of family (moves/separations).

School age kids and changing school.

Lack of assignment stability.

PCS moves/ family stability.

3B. Moving

Moving.
Constant moving.
Frequent moves.
Constant jobs, location change.

4. No Control Over Assignments

Staff assignments. (3)
No control of assignments.
Lack of say in assignment location.
The "political" nature of 06 and general-officer assignments and promotions.
Unaccompanied tours in peacetime.
No control over future. (2)
Inability to determine career.
Lack of control over assignments that can be achieved within normal assignment practices (without asking general officer for help).
Lack of control over assignments.
Lack of control over where I want to go and how often.
Assignment control.

5. Promotion/Advancement

Promotion uncertainty.

Lack of adequate promotion opportunity to 0-7.

Opportunity for progression.

Lack of adequate promotion opportunity to general officer for nonrated

Promotion system.

Complete disregard for potential vs politics.

Leaders too promotion oriented vs USAF oriented.

Do-gooders and fair-haired boys trying to lie, cheat, and steal to get ahead of their peers.

Overemphasis on careerism by too many officers.

6. Lack of Prestige/Appreciation

Lack of appreciation by public and Congress.

Barrier between military and civilian economy.

Lack of recognition and prestige by civilian sector.

Public indifference toward career military personnel.

American public's low opinion of value of military career.

Lack of civilian respect for military.

7. Resource Deficiencies

Lack of parts and supplies.

8. The Job

Boring job.
Lack of job commensurate with ability.
Non-use of training/talents.

9. Navigator Discrimination

Limited by AERO rating (NAV) for advanced rank and jobs. Lack of equal opportunity for NAVS to achieve command of operation flying units.

Job discrimination because of being a navigator.
Being a navigator in a "pilots'" Air Force
Status of navigators when competing for promotions, jobs,
assignments, etc.

10. Incompetent People

Incompetence in visible positions; i.e., CBPO, MAC terminals, SP, etc. due to poor leadership.
Fromotion of mediocrity with inflated ratings.

11. PME

Requirement to attend Mickey Mouse FME courses; i.e., AWC. Give me an opportunity to solve major AF problems at PME and not study ancient history.

The grading system at AWC.

12. Long Hours

No responses as a number 1 factor.

13. No Number 3.

Obviously, no response as a number 1 factor.

14. Too Early Retirement

Having to look for 2nd career at advanced age.

15. Non-professionalism

Lack of professionalism. Non-professionalism.

16. No Number 2

Obviously, no response as a number 2 factor.

17. Civilian Leadership

No responses as a number 1 factor.

18. Non-monetary Compensation

Compensation, over and above money, does not increase commensurate with rank and responsibility; i.e., some officers don't go to head of the line like they did in the "brown-shoe" days. Bust your tail 10 hours a day as an L/C so you can work 12-14 hours as a colonel.

20. No Number 1

No number 1 response.

21. Spouse Requirements

No responses as a number 1 factor.

WRITTEN RESPONSES TO QUESTION 191--THREE MOST NEGATIVE FACTORS IN AN AIR FORCE CAREER

NUMBER 2 FACTOR

1A. Inadequate Pay and Allowances

Pay. (8)

Lack of adequate pay and allowances.

Erosion of pay and benefits--including encroachment of commissary and BX prices by private sector.

Low pay. (3)

Inadequate compensation (TDY pay, rent-a-car use, office space and furnishings, basic pay and allowances, moving compensation, compensation for 50, 60, 70 hour weeks).

Low pay compared to same skill in civilian community and excessive family separation.

Inadequate compensation vis-a-vis civilians.

Inequitable workloads and hours for which compensatory benefits are not received.

Pay and allowances along with eroded benefits.

Low pay especially for enlisted force.

Inadequate pay and privileges for senior officers and senior enlisted.

Inadequate pay and benefits.

Lack of adequate compensation.

Inadequate pay.

Compensation is not adequate for demands and responsibility. Fulfilling family financial obligations.

1B. Eroding Benefits

Erosion of benefits (medical, rank privileges, BX, commissary benefits are marginal).

Uncertainty of retirement benefits.

Benefits.

Inadequate family medical attention.

Medical and dental for dependents.

Poor medical service.

Deterioration of real benefits -- medical benefits, commissary, etc.

Poor medical care.

Space available only medical/dental care for retirees.

Erosion of benefits.

1C. Moving Costs

Cost of overseas move (loss of equity in a house, etc.) Disadvantages faced in local markets (housing, etc.) due to constant movement.

2A. Management Related

Guidance from senior officers to their Hq. staffs, in many instances, needs to be better defined. There are not enough people to work the wrong problem.

Lack of integrity.

Some areas of Air Force management.

Over-politicization.

Too much time devoted to crisis management and not enough planning for the future.

An absence of foresight and disregard for innovative thinking. Micro-management from the macro-level--hire me, train me,

select me for a key job and turn me loose. Trust me:

Having to work for and with marginally competent senior officers who are either cheap bastards, lacking in professional integrity or are promoted to 0-6 despite their total lack of attention to detail and preparation.

Too many layers of bureacracy (NAF, etc.)

Centralized management.

Micro-management.

Management mindset vice leadership.

Lack of flexibility on the part of leaders and management to reward and promote truly outstanding performers and place them in responsible positions.

Over centralization of management.

Reluctance of leadership to delegate authority.

High levels of responsibility without commensurate authority.

Frustrations of dealing with system/bureacracy.

"Make work" to answer "what ifs."

2B. Leadership Related

Aggrandized leadership.

Leadership.

Quality of leadership--excessive self-centeredness.

Leadership by default (oldest).

2C. Policy Related

Performance rating system.

Up-or-out.

Do more with less as manning goes down and job stays constant or expands.

Lack of a comprehensive, organized and responsive Air Force personnel program.

3A. Instability

Uprooting the family so often.
Family separation.(4)
Instability of family life.
Family hardships (PCS's, separations, schools).
Family disruptions.
Family inconvenience.
Moving family with children in later high school years.
Heavy personal requirements.
Lack of family stability roots.

3B. Moving

Numerous PCS. (2)
Frequent moves.
Moving.
Strain on family during roves.
Stability of assignments.
Too frequent moves.
Moving too much.
Frequent PCS moves.

4. No Control Over Assignments

Lack of real control over assignments. Uncertainty in assignments. Frequent impossibility of matching personal desires with AF needs. Lack of control over destiny--assignments, where you live, promotions. Little career control. Assignment limitations (as career progresses). Concern for personnel desires. Inadequate consideration of my personal/family concerns in the assignment process. Too much staff duty. Fragmented career management philosophy. Future uncertainty. Lack of influence over assignments. Insensitivity to family with assignments. Remote tours. Assignment instability. Ability to influence future assignments.

5. Promotion/Advancement

Lack of opportunities rated-vs-non-rated. To be promoted it requires a turbulent PCS environment.

Promotion system. (2) OER/promotion concerns.

People who try to do everything except what Uncle Sam pays them to do to get promoted--education, PME, boot licker, etc..

Promotion prejudice.

Lack of promotion opportunity beyond 0-6 for non-rated officers.

6. Lack of Prestige/Appreciation

Prestige.
Treatment.

Low prestige.

Lack of public esteem for military. (2)

Lack of public support.

Inadequate recognition/respect for military professionals by society.

Societal View.

7. Resource Deficiencies

Poorly equipped and maintained: equipment and facilities Lack of resources to complete mission (people, flying, time, etc.).

Not enough flying time for our jocks to have the proficiency they want to have.

Inability to complete/accomplish needed improvements.

Poor working conditions.

Lack of adequate funding to accomplish mission properly.

Lack of adequate resources for proper training.

Lack of resources to do the job.

8. The Job

Large number of meaningless jobs. Stagnation.

9. Navigator Discrimination

No response as a number 2 factor.

10. Incompetent People

A weak, ineffective boss.

11. PME

No response as a number 2 factor.

12. Long Hours

Hours.
Unreasonable work demands.
Long hours.
Work schedules.

13. No Number 3

Obviously, no response as a number 2 factor.

14. Too Early Retirement

Starting second career.
Necessity of starting second career at middle age.

15. Non-professionalism

No response as a number 2 factor.

16. No Number 2

No number 2 negative factor. (3)

17. Civilian Leadership

Civilian employees throughout DOD. Lack of Presidential support.

18. Non-monetary compensation

No response as a number 2 factor.

19. Inequality in the Workforce

Ne response as a number 2 factor.

20. No Number 1

Obviously, no response as a number 2 factor.

21. Spouse Requirements

No response as a number 2 factor.

WRITTEN RESPONSES TO QUESTION 191--THREE MOST NEGATIVE FACTORS IN AN AIR FORCE CAREER

NUMBER 3 FACTOR

1A. Inadequate Pay and Allowances

Unequal work for equal pay. Always feeling overworked and underpayed. Pay, benefits. Money. Compensation. Loss of purchasing power due to inflation. Monetary compensation. Low Pay. (2) Salary plus eroding of benefits. Compensation well below civilian for education and experience. Pay and benefits. (2) Poor pay for responsibility. Pay. (5) Compensation in certain skills compared to those in civilian community. Pay insufficient for the dedication and hard work required to do the job right-the first time. Inadequate financial rewards. Inadequate pay, benefits and courtesies for senior officers. Compensation relative to civilian sector equivalents. Lack of commensurate pay (for work/responsibility).

1B. Eroding Benefits

Increasing difficulty in providing for retirement home. Declining quality of medical and dental benefits and services. Dwindling benefits. Erosion of prestige and benefits. Instability of military perks over a period of time to fiscal scrutiny by civilian sector. Consistant erosion of benefits. Up until the last year or two the constant press by OMB, GAO, Congress and some in the DOD to eliminate BXs, commissaries and the poor press based on little evidence of any impropriety. Loss of benefits. Lack of dental benefits and GI Bill. Housing Insidious erosion of benefits. Benefits touted but not available; i.e., medicare for dependents. etc.. Erosion of benefits.

1C. Moving Costs

PCS moves (in today's economy, selling house, etc.).
Moving expenses.
Cost of housing market--moves.
Expenses for PCS moves (financial disaster)(move, housing, rentals, etc.)

Inadequate travel allowance.

I hate to move, not the change of location but the hassle and cost of going from A to B. We can make that easier--pay what it costs; i.e., house hunting trips, etc..

2A. Management Related

Centralization
Managerial distrust of people.
Need much more buck stop--lower the responsibility.
Careerism.
Terrible senior management.
Micromanagement by HHQ.
Fuzzy management practices.
Incompetent senior leadership.
Senior management.
Managers and supervisors with their heads in the sa

Managers and supervisors with their heads in the sand about the mission of the Air Force to Fly and Fight. Only want to do what's good for them.

Micromanagement.

Perception of higher management that more hours on the job
equates to a significantly higher degree of accomplishment.
Leaders who won't tell superiors no; i.e., can do without.
The perception that senior officers do not have the authority
to make necessary changes in force structure and management.

2B. Leadership Related

Confused leadership.
Square-filler commanders with no concern for mission or people.
Poor leadership.

2C. Policy Related

Contending with illogical programs; e.g., affirmative action. An impersonal personnel system.

Poor, inconsistent policies.

Having to keep doing more with less.

Elimination of "soldiering" from the Air Force.

Congressional juggling of retirement and pay scales.

Inflated rating system.

Up or out system.

Insecurity resulting from "up or out" system.

Changes in the rules; i.e., retirement, etc..

Rating system.

3A. Family Disruption/Separation

Family Separation. (4)
Great deal of family sacrifice.
Family hardships from PCS/TDY.
Family separation of PCS moves.
Time away from family.
Family stress.
Inability to take root and settle down before retirement
Incompatibilities between AF career and family stability needs

--especially for career working spouses and children
with special education needs or desires.
Family considerations.

3B. Moving

Moving
Frequent PCSs
Lack of roots to community
Continual moving.
Frequency of moves.

4. No Control Over Assignments

Assignment policies.
Assignments.
Assignment policies not flexible enough to accomodate the family members and their desires.
Aircraft assignment policies.
Control over assignment opportunities.
Knowing that I'm headed for Washington D.C..
The requirement for overseas duty.
Lack of control over future.
Lack of control over assignments.
Assignment planning/family separation.

5. Promotion/Advancement

Limited opportunity for promotion that is commensurate with ability.

Failure to truly recognize outstanding dedication and work. Increasing politicization of promotion process at higher grade levels.

People gaming system to get ahead.

Too many squares to fill--PME, education.

6. Lack of Prestige/Appreciation

Lack of public support for military. (2)

Lack of respect by civilians.

Public attitude.

Being used by political civilian opportunists as a scapegoat in attempts to incluence policy or create social change.

Public concept of military career.

Lack of civilian appreciation.

Lack of appreciation from society.
Lack of public respect and appreciation.

Lack of Congress support.

Lack of adequate status symbols (externals).

7. Resource Deficiencies

Inadequate resources to do the job.

8. The Job

Job satisfaction. Match responsibility and capability. Meaningful employment.

9. Navigator Discrimination

No response as a number 3 factor.

10. Incompetent People

The difficulty of getting rid of people who can't or won't perform. Promulgation of mediocrity. Lack of committment to mission.

11. PME

AWC (Evaluation system in particular.). PME that continues to treat adults as children! Being treated the way I was as a Lt or Capt, especially in Air Force schools.

12. Long Hours

No response as a number 3 factor.

13. No Number 3

No Number 3 as a negative factor. (8)

14. Too Early Retirement

No response as a number 3 factor.

15. Non-professionalism

No response as a number 3 factor.

16. No Number 2

Obviously, no response as a number 3 factor.

17. Civilian Leadership

No response as a number 3 factor.

18. Non-monetary compensation

No response as a number 3 factor.

19. Inequality in the Workforce

Inadequate recognition for support personnel. Disparity in image of rated-vs-non rated officers. Failure to improve the quality of life for enlisted troops.

20. No Number 1

Obviously, response as a number 3 factor.

21. Spouse Requirements

Some situational ethics; i.e., Navs can be Sq/CC, yet that's not really true; most Sq and Wg/CCs must be married; more emphasis put on wives being involved in social functions and not recognizing the ongoing social revolution.

OWC, and the politics required to promote husband.

APPENDIX K

MOST IMPORTANT ISSUE

WRITTEN RESPONSES TO QUESTION 192--THE SINGLE MOST IMPORTANT ISSUE FACING THE AIR FORCE TODAY

1. Retention

Making sure we have quality people. Recruitment and retention of high quality people (6). Retention - particularly second term enlisted people. Retention (23). Retention of engineers. Retention of best people (6). Retention of career airmen to adequately support existing weapons systems. How to attract and retain qualified people and use them to their maximum effectiveness -- women included Retention of quality people with the recent experience to fly and lead the troops. Retention of skilled/experienced work force (5).
Retention of highly qualified officers and airmen (4).
Retention of NCOs and mid-grade (7-10 yr) officers (3). Poor recruitment (we are not getting the good people) and disastrous retention. Lets take a look at universal service and a GI Bill. Retention of decent personnel. People. Retention of mid-level NCOs (2). Retention, recruitment and general quality of the force. Maintaining a force of trained, qualified, motivated Retention of quality people especially young officers and airmen (2). Retention, Retention, Retention of good professional military soldiers. Need a system that dumps the "do-gooders;" i.e., PME bums and professional students that won't work but think they are so highly qualified. Retention of quality people in critical skills (engineering, medical) Retention of the right quality people for the right reasons; i.e., to serve AF not their personal advancement. Retention of professional people. Retention of the right people, both senior officers and senior

NCOs.
Recruiting, training, utilization and retention of quality personnel.

Retention of experienced middle managers.

Retention--not just pilots (they are highly visible) but qualified people across the board.

2. Readiness Deficiencies

Readiness (4).

Objectives and purposes.

Lack of readiness to fight which is the primary mission of the USAF.

Acquiring a combat capability that will contribute to our country reacquiring credibility as the leader of the free world.

That issue is identical to that faced by other military services--whether or not "defense" is worth the price the U.S. public must pay over the next two decades to buy "insurance" for U.S. lifestyle.

Lack of national purpose and commitment to support the military personnel and equipment necessary to meet the threat.

Unwillingness of the citizenry to adequately support the military with sufficient quality people and money posed against the high proportion of the budget that a good AF costs.

How to rebuild the nation's military strength.

Convincing the public and Congress to maintain an adequate defense.

Necessity of having a strong military.

Preparedness for war.

Inability to carry out the mission of national defense because of past political mistakes and the need to rebuild to meet the challenge.

Decreasing strength relative to USSR.

Being able to counter the known threat.

Continuing viability.

Combat readiness--i.e., the aggregate ability of all USAF resources (personnel, equipment, doctrine, etc) to meet and defeat the Soviet threat, when employed in concert with other U.S. and Allied forces.

Acquiring and maintaining an adequate AF for its mission. Readiness/sustainability.

Insure we have the means of preserving the American society. Building and maintaining a fighting force of sufficient size and quality.

Preparing for war against a stronger opponent.

3. Leadership/Management Deficiences

Lack of quality leadership.

The proliferation of Hqs and Staffs. We have more pilots "managing" than we have pushing throttles by some margin. The younger pilots see little future for themselves except as "paper-pushers."

Lack of guts in senior leaderhsip. Politics and desired personal achievement overshadow telling it like it is.

We don't have enough people in leadership positions--Sq/CC and above--who are willing to disregard the political nature of the system. Too many are concerned about their own personal goals and not the mission/people.

Leadership and management.

Developing leaders, not micromanagers.

Inability to manage with integrity; leadership $t\infty$ politically inclined.

Bureacracy of leadership.

How to do away with the vast number of strap hangers making life impossible for the few workers in the wings that make the AF go.

Maintaining a sense of dedication, professionalism and urgency within the service in a time where this is not particularly in vogue within the country

Loss of professional identity.

Pampering to selfishness rather than appealing to patriotism. Rising expectations of people with the idea--what's in it for me.

The need for a greater sense of duty and commitment in its people. The need for the AF to be considered more than just a job.

Quality of personnel.

Esprit de corps (2).

Notivation

We need to focus the attention of all our people on the mission of the Air Force, emphasizing each individual's part in that mission.

Improving its image to Congress, the American people and itself to provide self-esteem necessary to maintain professionalism and retention in its personnel.

4. Resource Deficiencies

Lack of adequate \$ support from Congress.

Dollar crunch .

Provision for adequate resources (\$, systems, personnel).

Money for equipment and people.

How to buy quality people and equipment with limited budgets.

Lack of resources to do job properly.

How to optimize the use and expenditure of limited funds appropriated by Congress.

Inability of aligning mission requirements with capability. Weapon acquisition.

Making progress in people programs, compensation, hardware, facilities, forces under fiscal constraints.

Materiel support of aircraft--(people and parts).

Lack of sufficient resources to perform mission and maintain a quality force.

Quality of life for its personnel--all money (0 & 1) goes to mission related items, not to improving our facilities, recreational activities, etc.

Having enough money, materiel and manpower to do the job. Lack of adequate funding to accomplish mission properly. Doing more with less.

Maintaining a quality force in the face of budgetary constraints. Lack of resources to adequately train and function under sustained combat.

5. Compensation

Compensation.
Pay (2).
Equal pay versus the civilian market Inadequate pay.

6. Miscellaneous

Lack of conern for singles; i.e., quarters, job opportunities, pay differences for marrieds.

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